

AUTHORAID

# *Research Writing Workshop* **Toolkit**

Resources to run a  
participatory research  
writing workshop at  
your institution

## ABOUT INASP

Founded in 1992, INASP is an international development organization working with a global network of partners in Africa, Latin America and Asia. In line with the vision of research and knowledge at the heart of development, INASP works to support individuals and institutions to produce, share and use research and knowledge, which can transform lives.

INASP's approaches are based on the core pillars of capacity development, convening, influencing and working in partnership. INASP promotes equity by actively addressing the needs of both men and women across all our work and addressing issues of power within the research and knowledge system. INASP has projects in 28 countries, supporting all aspects of research and knowledge systems, from facilitating the provision of information to researchers to helping parliamentarians and civil servants to use research and evidence in policy making.

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## ABOUT AUTHORAID

AuthorAID is a free, pioneering global network that provides support, mentoring, resources and training for researchers in low- and middle-income countries.

AuthorAID provides support through mentoring, online training and opportunities to network with other researchers. Via the AuthorAID platform, a network of currently 17,000 researchers in low- and middle-income countries can connect with mentors, mentees and collaborators and get support to publish and communicate their work.

AuthorAID also works directly with Southern universities and institutions to build local capacity.

[www.authoraid.info](http://www.authoraid.info)



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# Introduction to the workshop materials – for the lead facilitator

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Thank you for your interest in being the lead facilitator for an AuthorAID research writing workshop. At the outset, please go through and understand the materials that are part of the ‘standard’ four-day AuthorAID research writing workshop, which has been designed based on active learning principles by the AuthorAID team at INASP. You will then be able to design an AuthorAID workshop that is relevant for your context and audience.

Please do the following **at least one month before your AuthorAID workshop**:

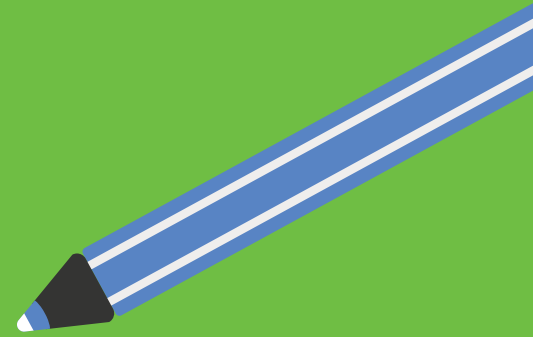
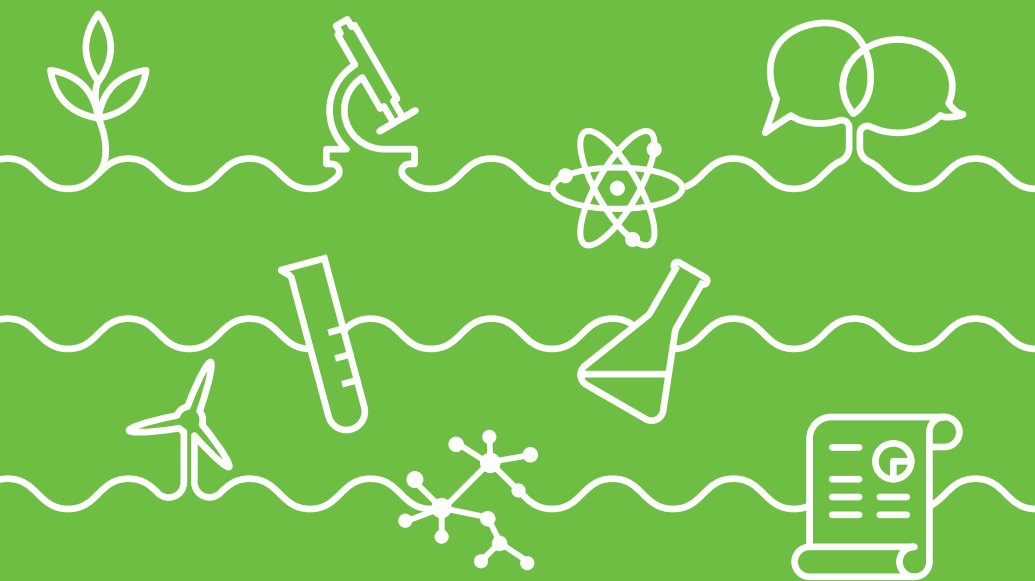
1. Carefully go through the facilitation notes for the standard workshop, referring to the other materials (especially the participant handbook and facilitator’s slides) wherever indicated in the facilitation notes. We strongly recommend that you print this document along with the participant handbook as these documents are somewhat lengthy and call for intensive reading.
2. After going through the facilitation notes, think about your own AuthorAID workshop:
  - How long is your workshop going to be?
  - What is the profile of the participants who will attend your workshop? What do they already know about the topic and what would they expect to learn or do during your workshop?
  - Which sessions of the standard AuthorAID workshop would be most relevant for your workshop? Do you have a good rationale for selecting some sessions and leaving out others?
  - Would you need to include sessions on any other topic\* not included in the standard workshop? If so, who will develop the materials for these sessions and who will facilitate them at the workshop?
3. Decide who is going to be part of the workshop team, for example, the workshop organizer (the person in charge of logistics and arrangements) and co-facilitators. Share your thoughts with your team and seek their feedback.
4. Design a selection process to recruit the right participants for your workshop. Tell the workshop candidates what the workshop is about and what they will be expected to do during the workshop.

Then, **at least two weeks before your AuthorAID workshop**, please do the following:

1. Draft the agenda for your workshop and share it with your workshop team.
2. Select the participants for your workshop.
3. Adapt the pre-workshop information document for participants so that it fits with your workshop plan.
4. Share the workshop agenda and pre-workshop information with your workshop participants.
5. Put together the materials for your AuthorAID workshop by using or adapting the materials for the standard workshop and by developing materials you may need for any new sessions you have designed.

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\* You may find it useful to refer to the AuthorAID resource library which has a large collection of free e-resources related to research communication: [www.authoraid.info/en/resources](http://www.authoraid.info/en/resources)



**AUTHORAID**

# *Research Writing Workshop* **Facilitation Notes**

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# Guidance for trainers

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## *Background knowledge and skills for trainers*

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Those who're looking to facilitate this workshop should ideally have

- Experience as an investigator in scholarly research projects
- Authored at least three original research articles that have been published in reputable peer-reviewed journals
- An awareness of current issues in scholarly publishing
- A positive attitude towards active learning
- A strong interest in using techniques to support active learning in the classroom

## *General advice*

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- This is a workshop design for 20-25 people.
- The workshop design can be adapted so it is fit for purpose.
- The trainer/s can insert photos/images into the PowerPoint slides where they see fit.
- The timings are an approximate guide and trainers are expected to make adjustments during the course of the workshop.
- The trainers will need to monitor the atmosphere in the training room, and use energizers when a change of pace or in energy levels is required.
- The trainers need to print out the agenda, the facilitation notes and the participant handbook to support the preparation and delivery of the workshop.
- The trainers should make sure that the 'preliminary information' document and workshop agenda have been sent to the workshop participants before the workshop.
- As good workshop practice dictates, trainers need to spend time in advance of the workshop, to study the facilitation notes, training resources and participant handbook. It is also recommended that trainers consider how best to format the facilitation notes so that they are easy to use on a day-by-day basis and that they match the trainer's preferred note format.
- Every participant should receive the following at the start of the workshop:
  - A copy of the participant handbook, ideally placed inside a ring binder folder (so papers can be removed and new ones added using a hole punch)
  - A notepad and pen

## *The training room*

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The trainer/s together with the workshop administrator, need to ensure that a suitable training room and layout is organized well in advance of the workshop. It is recommended that, for the smooth and successful delivery of the workshop, the following training room and layout arrangements are made:

- Round, moveable tables are sourced, comfortably sitting up to four participants (e.g. if a total of 20 participants, five tables are required).
- Three small extra tables are provided: one to house the laptop and projector, one for the trainers' workshop materials and one as a spare.
- Light, movable chairs are sourced, enough for each participant and five as spare.
- The tables and chairs need to be placed in roughly one half of the training room, and are at least two or three leg strides apart. The remaining half of the space is left free for other workshop activities.
- Find a training room, with lots of wall space on which flipcharts and training resources can be attached.
- Identify a clear wall to act as a screen if no screen for the projector is available at the training venue.
- Remove any raised platform or stage at the head of the room; they are not required.

## *Workshop stationery and resources*

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Please make sure the following are available:

- Sticky notes (or post-it notes): A few sets of both large and small notes
- At least two sets of flipcharts and two flipchart stands
- Two sets of marker pens
- Projector and screen
- Computer to connect to the projector (in case the trainer will not be using their own laptop computer)
- A few flash drives (in case Internet connectivity is not available for the activities where the participants need to share documents with each other)
- Optionally, a whiteboard (in this case, make sure the whiteboard markers are different from the markers used for flipcharts as the latter kind could have permanent ink!)

## *Abbreviations used in this document*

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- D1 means day one of the workshop, D2 means day two of the workshop and so on.
- S1 means session one of the workshop, S2 means session two of the workshop, and so on. Session numbering continues from one day to another, so the second day starts from a session number that's one integer higher than the last session number of day one.
- PSL: PowerPoint projector, screen and laptop.



# Day one agenda

## *D1-S1: Introductions and learning agreement*

<b>Length of session</b>	50 minutes
<b>Session summary</b>	This session is for participants to get to know one another, become familiar with the workshop format and resources, and reflect on a key question.
<b>Visual aids and equipment</b>	PowerPoint projector, screen and laptop (PSL henceforth)
<b>Resources (on the day)</b>	Facilitator's slides
<b>Participant handbook to be used?</b>	No
<b>Guidance to facilitating learning activities</b>	<p><b>Welcome and introductions (20 mins)</b></p> <p>Welcome participants to the workshop. Why is this workshop being conducted? What is the big picture? Why have these particular participants been selected?</p> <p>Introduce yourself. If the workshop is to be 'opened' by a senior administrator, ask this person to keep their speech under 5 minutes.</p> <p>Ask participants to introduce themselves one by one. Ask people to give one name by which they wish to be referred to during the workshop and to describe their research or work in two sentences. Give participants 2 minutes to collect their thoughts before starting with the introductions.</p> <p><b>Introduction to workshop, learning outcomes, participant handbook, and active learning (10 mins)</b></p> <p>Present the <u>slide</u> with the intended learning outcomes. Describe the workshop resources: the facilitation notes in your hand, the slides (make the point that slides are largely meant to support the learning activities), on-the-day resources which you'll be handing out now and then, and importantly the participant handbook.</p> <p>Ask participants to open their handbook and glance at the workshop agenda and browse the handbook for a couple of minutes individually. Point out the structure of the handbook and mention that only sessions for which there are relevant handbook sections are given in the handbook. Take two or three questions at this point but not more.</p> <p>Present the <u>slide</u> about active learning and take a couple of questions.</p> <p><b>Learning agreement (5 mins)</b></p> <p>Present the <u>slide</u> with points that people should agree to. Ask if these are reasonable and if anyone has objections.</p> <p><b>Introduction to end-of-day reflection (5 mins)</b></p> <p>Show the <u>slide</u> about this. Encourage participants to keep these points in mind while they go through the workshop.</p> <p><b>Think-pair-share activity (10 mins)</b></p> <p>Ask participants to individually reflect on this question (show <u>slide</u>): What does success as a research author look like to you?</p> <p>Give them 5 minutes to jot down their thoughts. Ask them to turn to a table partner and share what they've written. Collect the notes and ask a co-trainer to write up the interesting points on a flipchart and put it up on a wall.</p>

## D1-S2: Establishing the right mindset to be a research author

<b>Length of session</b>	45 minutes
<b>Session summary</b>	Participants learn about why it's important to have a 'growth mindset' instead of a 'fixed mindset' to be a successful research author
<b>Visual aids and equipment</b>	PSL
<b>Resources (on the day)</b>	Facilitator's slides
<b>Participant handbook to be used?</b>	Yes
<b>Guidance to facilitating learning activities</b>	<p><b>Making groups and arranging the physical space (10 mins)</b></p> <p>Invite participants to sit in groups of three. This is the first of many small-group activities in the workshop so you might want to offer some support in arranging tables and chairs if necessary and helping people form groups. For this session create groups by having people call out 1,2,3,1,2,3 etc. and grouping all the 1s, 2s and 3s.</p> <p><b>Introducing the concept and activity (5 mins)</b></p> <p>Once they're all seated, present the graphic on fixed mindset and growth mindset. You can find this at <a href="http://www.brainpickings.org/2014/01/29/carol-dweck-mindset">www.brainpickings.org/2014/01/29/carol-dweck-mindset</a>.</p> <p>Mention that this is the work of a world-renowned Stanford University professor – you are addressing an audience of researchers so they would appreciate that a lot of research has gone into this! Point out the link in the participant handbook to an article that has an excellent summary. Then show the <u>slide</u> describing the activity participants have to do.</p> <p><b>Part 1 of the activity: Group discussion (15 mins)</b></p> <p>Ask participants to read the instructions on the <u>slide</u> and discuss in their group.</p> <p><b>Part 2 of the activity: Reporting (10 mins)</b></p> <p>Ask one person from each group to report on the group's discussion and examples they came up with. (This person is the rapporteur.) Question rapporteurs when something is unclear or to elicit more information.</p> <p><b>Closure (5 mins)</b></p> <p>Give an oral summary at the end of the activity, mentioning some of the interesting or important examples or behaviours that participants came up with, and reiterating the importance of having a growth mindset as a research author.</p> <p>Finally, ask participants to read the short note in their handbook on adopting a growth mindset to become a better writer.</p>

## D1-S3: Research and publishing ethics

<b>Length of session</b>	60 minutes
<b>Session summary</b>	The goal of this session is to instil in participants an understanding of the major ethical problems on both the researcher side and journal side of ethics
<b>Visual aids and equipment</b>	PSL, sticky notes
<b>Resources (on the day)</b>	Facilitator's slides
<b>Participant handbook to be used?</b>	Yes
<b>Guidance to facilitating learning activities</b>	<p><b>Setting the context (5 mins)</b></p> <p>Invite participants sit in groups of three (they can work in the same groups formed in the previous session) and present the <a href="#">slide</a> with the activity instructions.</p> <p><b>Group work (15 mins)</b></p> <p>Participants to work on the activity, fill out sticky notes, and stick them on the wall.</p> <p><b>Viewing (10 mins)</b></p> <p>Once participants put up their notes on the wall, ask them to walk around and look at what other groups have put up. Encourage them to ask each other questions. Walk around with the participants yourself.</p> <p><b>Structuring (10 mins)</b></p> <p>Place sticky notes with the following six headings a different part of wall: Data falsification/fabrication, plagiarism, conflict of interest, authorship, journal ethics, other.</p> <p>Ask each group to categorize all their notes under these headings, i.e., by moving each note under the right heading. By the end of this activity, all the groups should have moved their notes under these six headings. Note: there is only one set of six headings, not six headings per group.</p> <p><b>Viewing and further additions (10 mins)</b></p> <p>Ask participants to circulate again and check if there are any headings with very few or no examples. Can they come up with some examples for those headings? Or do they have anything more to add in general? They can write on more sticky notes and put them up.</p> <p><b>Closure (10 mins)</b></p> <p>Facilitate a short plenary discussion. Invite people to comment on the key topics in research ethics that concern them. Share tips from your knowledge or experience. Finally point participants to the resources mentioned in the handbook.</p>

## D1-S4: Defining the focus and contribution of your paper

<b>Length of session</b>	90 minutes
<b>Session summary</b>	This session gives participants the opportunity to develop their pre-writing, i.e. a preparatory kind of writing which is often useful to embark on a writing project
<b>Visual aids and equipment</b>	PSL Participants should have their laptops ready for this session
<b>Resources (on the day)</b>	Facilitator's slides Peer assessment form which has to be emailed to the participants at the end of the assessment phase Printouts of the assessment form should also be kept ready as a backup in case Internet connectivity is not available Make chits with each person's name, who they are going to assess, and who will assess their work (prepare these chits in the morning or lunch break once you know who exactly has showed up for the workshop). Don't make assessments reciprocal (i.e. A evaluates B and B evaluates A) as this can lead to bad feelings if one person does a thorough assessment of their peer but does not get such an assessment from them. Keep a draft of an email ready in your mailbox with all the participants' email addresses and the assessment form attached
<b>Participant handbook to be used?</b>	Yes
<b>Guidance to facilitating learning activities</b>	<p><b>Setting the context (10 mins)</b></p> <p>Ask people to close their laptops so you have their full attention.</p> <p>This is one of the two major activities of the workshop. Ask participants to seat themselves comfortably in their own space with their laptop and stuff. You may have to stress on the point that this is an individual activity, not a group activity. Some participants may be hesitant or may even find a way to escape! Individual activities at a workshop can cause stress in some cultures.</p> <p>Show the <a href="#">slide</a> which explains the point of pre-writing and the next <a href="#">slide</a> which explains the activity. Ask if anyone has concerns about the activity. They should have been told before the workshop that they have to be prepared to write, so they shouldn't have any excuses to not participate. Reassure everyone that we are in a friendly learning environment and this is an activity to learn. No manuscript's fate hangs on this activity!</p> <p>Ask people to open their laptops and make themselves comfortable to begin writing. Tell them to put their phones on silent and to refer to the activity instructions in the handbook.</p> <p>Encourage participants to raise their hand if they would like you to assist.</p> <p>Make it very clear that there's a strict time limit for this activity: 40 minutes.</p> <p><b>Writing phase (40 mins)</b></p> <p>While participants are writing, keep an eye on the room to see if anyone needs help. Don't remain too distant or too close. Walk around the room every 8 to 10 minutes.</p> <p>Call out the remaining time at the following intervals: 20 minutes, 30 minutes, 35 minutes, and 38 minutes. At the 35-minute point, make it clear that no extension is possible. It is likely that some participants will appeal for extensions and it may be hard to say no. You may find that around the 30-minute point there's a buzz in the room and people are in the flow of writing. Try to stop the writing phase at 40 minutes, or give an extension of not more than 5 to 10 minutes if the workshop has proceeded thus far without delays.</p>

**Guidance to  
facilitating  
learning  
activities  
(continued)**

**Assessment phase (30 mins)**

Show the [slide](#) about the assessment phase. Spend 10 minutes handling the logistics – people picking chits and sending and receiving essays. When this is happening, email the assessment form to everyone (you should keep this ready in your drafts to avoid last-minute hassles). If Internet connectivity is not available, hand out the print version of the assessment form to everyone.

Then give 20 minutes for the actual assessment. Ask participants to carefully read the instructions in the form and to give constructive feedback.

**Sharing and reading evaluations (10 mins)**

Ask participants to email the evaluation they have done to their respective peer, or to share the paper version if this was used. Then ask them to quickly go through the evaluation they have received.

**Closure (10 mins)**

Invite comments and reflections from the participants on the usefulness of this activity and the feedback they've received. At this point it should be time for a break, so you can encourage them to chat with the person who assessed their work if they have any specific thoughts related to the feedback.

## D1-S5: Identifying appropriate target journals

<b>Length of session</b>	60 minutes
<b>Session summary</b>	Participants learn how to balance and weigh a number of factors while choosing their target journal.
<b>Visual aids and equipment</b>	PSL
<b>Resources (on the day)</b>	Facilitator's slides
<b>Participant handbook to be used?</b>	Yes
<b>Guidance to facilitating learning activities</b>	<p><b>Plenary discussion (5 mins)</b></p> <p>Participants sit where they are. Present the <a href="#">slide</a> with the question and ask participants to call out the characteristics of a journal that's suitable for their work. Make note of the unique answers on a flipchart or whiteboard, ignoring repetitive statements.</p> <p><b>Summative response (10 mins)</b></p> <p>Show the <a href="#">slide</a> with the characteristics listed. Point out any that were not mentioned by the participants and describe them briefly. And bring up any characteristics mentioned by the participants that don't quite fit into this list - they may not be important ones but if they are include them in the list right there. It's likely that some participants would have said 'impact factor' and not 'impact'. Clarify the difference between the two: impact factor is a metric - which is often misused and abused - whereas impact is a word with a generic meaning. Mention that there are links to resources about the impact factor in the handbook. Take a few questions at this point. Some participants may ask how the impact factor is calculated, which impact factor to trust, etc. These are hot topics. Just point them to the resources in the handbook. This is not the time to get caught up in intricate things.</p> <p><b>Prioritizing the factors to consider (15 mins)</b></p> <p>Have participants sit in groups of four. Give each group a set of six big sticky notes, each with one characteristic shown on the <a href="#">slide</a>. Ask the participants to number the notes in the order of priority that they feel is correct. E.g. if they think 'audience' should have the highest priority and 'prestige' should have the least priority, the former should be numbered 1 and the latter 6. Ask one person in the group to be a note-taker and jot down points that were discussed in the group during the prioritizing.</p> <p>When the activity starts, walk to each group and check that they understand the meaning of each characteristic given.</p> <p>When the groups have numbered their set of notes from 1 to 6, they should put it up on the wall vertically, with 1 on top, 2 under that and so on. Leave at least 5 feet of space between each list.</p> <p><b>Viewing (15 mins)</b></p> <p>A representative from each group stands beside their ordered list on the wall while the others walk around, look at lists and ask questions. The representative should be able to provide reasoning for the group's order of priority. Ask the representative to switch with another person in their group midway through this part so everyone gets a chance to look at others' work.</p>

**Guidance to  
facilitating  
learning  
activities  
(continued)**

**Video (5 mins)**

If there's good Internet connectivity at the workshop, show one of the following videos from Editage Insights which describe the process of selecting a suitable target journal.

*Selecting a Suitable Target Journal for Your Manuscript*

[www.youtube.com/watch?v=qHJTIE7RsMg](http://www.youtube.com/watch?v=qHJTIE7RsMg)

*Tips from a journal editor: How to select a journal for your paper*

[www.youtube.com/watch?v=-WBTL8PAv2o](http://www.youtube.com/watch?v=-WBTL8PAv2o)

They are both more than 5 minutes long so just show a part of the video.

**Closure (10 mins)**

Share your impressions of the activity and invite a few comments from the participants. Emphasize that there's no single correct way of prioritizing the factors to consider when choosing a target journal. It is ultimately a nuanced task.

Once again, be careful to not get caught up in intricate points - refer participants to the handbook if they continue to have questions about things such as open access, impact factor, etc.

Finally, ask participants to spend some time in the evening after the workshop to identify a suitable target journal for their work, as they will be writing an abstract on the second day of the workshop and it will be useful for them to refer to the journal's instructions.

## End-of-day reflection for day one

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If there were no delays today, you should have about 30 minutes for this session. If you have less time, take out Part 1.

**Part 1 - 5 mins:** Share a summary of the day's activities and the highlights of the day for you.

**Part 2 - 10 mins:** Invite participants to share their reflections on the day's work and impressions of the workshop.

**Part 3 - 10 mins:** Ask participants to individually fill out exit cards. Show the [slide](#) with instructions. Make sure sticky notes of the right colours are available to participants. If you don't have coloured sticky notes, edit this [slide](#) before the workshop.

Bunch up green, yellow and red notes separately and take them with you to look at in the evening.

**Part 4 - 5 mins:** Close the workshop and remind participants to try to identify a target journal before the next day. Address any housekeeping, logistical or attendance issues that came in the way on Day 1, and what you, the organizer or the participants could do to improve things. (If the workshop administrator should fix something, have a word with this person after the workshop.)

## After day one

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After you're back in your hotel, spend some time looking at the exit cards (or notes). Identify major or interesting points in these cards and look for frequent themes. Address these the next morning. Mark the cards that you will be commenting on the next day, e.g. by highlighting or underlining the text in the cards.



# Day two agenda

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## *Preparation for day two*

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Try to go early to the workshop venue, at least half hour before the participants come. Make sure tables and chairs are clear and the room is clean. Put up the exit cards from Day 1 on the wall, categorized by colour.

## *Morning review for day two*

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- Part 1 - 5 mins:** Start off with some banter about what you or the participants did the previous evening after the workshop. Don't make it about yourself – get participants talking!
- Part 2 - 10 mins:** Stand beside the exit cards on the wall and make some overall comments on the frequent themes. Say that you won't have time to respond to all the cards but you will be commenting on some. Then look at the cards which you've marked out and say a few things about each. Invite further comments from the participants.
- Part 3 - 10 mins:** Ask participants to walk around the space with the exit cards, read them and discuss any interesting points informally right there among themselves. (*While participants are doing this, check the attendance sheet and see if anyone is missing. Discuss what can be done with the organizer, e.g., is it appropriate to phone them?*)
- Part 4 - 5 mins:** Present an overview of the Day 2 workshop activities. Ask participants if they did the 'homework' from the previous day – identifying a target journal. Present the Learning Agreement slide if this was not properly adhered to on Day 1.

## D2-S1: Manuscript guidelines given by journals

<b>Length of session</b>	60 minutes
<b>Session summary</b>	The point of this session is to raise awareness of the importance of manuscript guidelines and why reading and following them is essential even if it's a tedious task.
<b>Visual aids and equipment</b>	PSL, green and yellow highlighter pens – one for each group
<b>Resources (on the day)</b>	Two sets of manuscript guidelines, printed out from publisher websites. You could select your own or use the following: ACS Langmuir - <a href="https://pubs.acs.org/page/langd5/submission/authors.html">pubs.acs.org/page/langd5/submission/authors.html</a> Ceylon Medical Journal - <a href="http://cmj.sljol.info/about/submissions">cmj.sljol.info/about/submissions</a>
<b>Participant handbook to be used?</b>	No
<b>Guidance to facilitating learning activities</b>	<p><b>Plenary discussion (10 mins)</b></p> <p>Present the slide with the question – this might evoke some laughter. But prod participants – just because the task of reading and following instructions isn't exciting or interesting, does it mean it's not important? Ask people to share any anecdotes they may have related to following manuscript guidelines. Share your experiences or anecdotes if you have any. You can also share this joke that originated among journal editors: 'If you have to write a secret in a place where no-one should read it, put it in the middle of your journal's manuscript guidelines'.</p> <p><b>Reading manuscript guidelines given by two journals (40 mins)</b></p> <p>Ask participants to sit in groups of three. Give each group the two sets of manuscript guidelines (ACS Langmuir and Ceylon Medical Journal). Give each group highlighter pens in two colours, say yellow and green. Show the slide with the activity instructions. For the second part of the activity, ask the rapporteur to clearly identify the part of the documents they would like to comment on so that the others can follow on their own documents. Invite participants to answer points that seemed unclear or confusing to any group. You don't have to answer them yourself – it could well be that you don't know the answer and that's fine. One point of the exercise is that it may not always be easy to understand all the instructions given by journals, and authors should work as a group to make sense of them.</p> <p><b>Plenary discussion (10 mins)</b></p> <p>Show the slide with the next question for this session. Give a few minutes for people to respond. Then show the slide with the main reasons. If any participants had mentioned additional reasons that you think are important, try to add them to the slide right then or mention that those reasons are also valid.</p> <p>End the session by making the point that it's important to read and follow manuscript guidelines before, during and after writing the paper.</p>

## D2-S2: Structure of a typical scientific journal article

<b>Length of session</b>	45 minutes
<b>Session summary</b>	This session is to inculcate in participants a solid understanding of the structure of a typical scientific journal article. Once they understand this framework it'll be a lot easier to fill in the details of the research.
<b>Visual aids and equipment</b>	PSL, a prize such as a bar of chocolate or a pen, big sticky notes in yellow and green
<b>Resources (on the day)</b>	N/A
<b>Participant handbook to be used?</b>	No
<b>Guidance to facilitating learning activities</b>	<p><b>Ice-breaker (5 mins)</b></p> <p>First show the slide 'every baby knows the scientific method'. Let participants read it – the humour might not translate well if you read the slide or describe it. If anyone has trouble reading the slide ask them to walk up to the front and read it. No harm in a little exercise! Once you see that most people have read it and got the point, mention how this is really the basic outline of the scientific method. Point them to the excellent and detailed Wikipedia article on the scientific method if they'd like to know more about its history and the philosophy behind this term which we might simply take for granted.</p> <p><b>Jeopardy (5 mins)</b></p> <p>Before you show the next slide, tell participants about the popular game show Jeopardy. Ask if anyone knows about it and if so ask them to describe it. Otherwise, tell them how it works. A concept or term is presented, and the one who correctly says out loud the <i>question</i> corresponding to that concept or term is the winner. Give the following example or a country-specific one: if '10 Downing Street' is shown, the correct question would be 'What is the residence of the UK Prime Minister?'</p> <p>Then show the slide with the acronym – IMRAD. Give the prize (e.g. bar of chocolate or a pen) to the person who is the first to say a question along the lines of 'What is the most common structure of a scientific journal article?' If no one is able to get the answer, provide a clue, e.g. that the acronym refers to the structure of a journal article. Once you have a winner, give this person the prize (bar of chocolate / pen / something else). Then ask this person to say the full form of IMRAD. Show the slide with the brief description of IMRAD.</p> <p><b>Identify and solve an everyday problem using the IMRAD approach (20 min)</b></p> <p>Ask participants to sit in groups of three. Then present the slide with the instructions for this activity. Ask participants to think of some examples of everyday problems and share them. If responses are not forthcoming, give an example such as 'finding the best route to reach the office'.</p> <p>Then hand out one yellow sheet (or big sticky note) and four green ones to each group. During group work, walk around and make sure every group has understood the instructions.</p> <p><b>Viewing and discussion (10 mins)</b></p> <p>Ask one person in each group to remain at their table and the others to walk around to look at what others have done. Encourage them to ask questions and point out gaps or weaknesses. Walk around yourself and participate in this part of the activity.</p> <p><b>Closure (5 mins)</b></p> <p>Ask participants to share their reflections – how useful was it to think about an everyday problem using the IMRAD approach?</p>

## D2-S3: Writing a working abstract of your paper

<b>Length of session</b>	120 minutes
<b>Session summary</b>	This is the second of the major writing activities in the workshop and should give participants hands-on experience with research writing along with the opportunity to get some immediate feedback.
<b>Visual aids and equipment</b>	PSL
<b>Participants should have their laptops ready for this session</b>	N/A
<b>Resources (on the day)</b>	Chits with peer review pairs written up
<b>Participant handbook to be used?</b>	Yes
<b>Guidance to facilitating learning activities</b>	<p><b>A sample abstract (10 mins)</b></p> <p>Show on the projector the document called ‘Annotated PLOS ONE abstract’. Mention that this is adapted from an AuthorAID resource (<a href="http://www.authoraid.info/en/resources/details/648">www.authoraid.info/en/resources/details/648</a>). Walk participants through the example. Tell them that this document is in their handbook.</p> <p><b>Getting ready to write (10 mins)</b></p> <p>Ask participants to seat themselves comfortably. This is an individual activity and every participant should be seated at a desk with space for their laptop and papers. Spread people out in the room – they shouldn’t be bunched up. Tell participants to have all of their research data, journal instructions, etc. ready, go to the toilet if they wish to, close Facebook, email, etc. and really get into a mood to focus on writing. No phone calls or text messaging either.</p> <p>Ask if everyone has their target journal’s instructions to authors. If some people don’t, ask them to use one of the two sample instructions given out on Day 1. Email it to them if the hard copy is filed away somewhere.</p> <p><b>Writing (40 mins; can be extended to 50 mins)</b></p> <p>This hour is for participants to work individually on their abstract. For the first 5 to 10 minutes, stay out the participants’ space. Getting ready to write can be hard. Just keep a watch on whether participants are getting ready and they’re not distracted.</p> <p>After 10 minutes, walk around now and then but don’t lean over participants’ shoulders to read what they are writing. Some people can find this annoying. If anyone makes eye contact with you, ask them how their writing is coming along. Look for gestures or expressions that indicate that people need some support from you. Don’t disturb anyone who is absorbed in writing.</p> <p>After about 20 minutes, go to the front of the room and ask participants how they are progressing and remind them that you’re available to provide support. Keep this brief – some people may be concentrating on their writing. Remind them to put a working title on top of their abstract as this will greatly help their reviewer in the next stage of this activity.</p> <p>When it gets to 30 minutes, remind everyone that there’s only 10 minutes left. When 40 minutes are up, it’s likely that some people will want more time. Give 10 more minutes for this activity – not more.</p>

**Guidance to facilitating learning activities (continued)**

**Peer review - getting ready (5 mins)**

Announce that we are moving to the review phase of the activity.

Hand out to each participant a chit with their name and the name of their peer reviewer. This is going to be a 'reciprocal' assessment activity: Person A evaluates Person B's work, and vice-versa. Prepare these chits before the activity or while it is going on.

Ask the peer review pairs to share their work with each other through email and to start reviewing the other person's abstract. If Internet connectivity is not available, distribute a few flash drives for participants to copy and share their abstract document.

**Doing the review (20 mins)**

Every assessor should check the abstract they have received against the sample abstract (Nature summary). They should refer to the sample - which is in their handbook - during the review. Ask them to insert comments, make edits, use highlights etc. to mark the abstract. They should avoid talking to their peer to clarify things and work only on the writing.

**Giving feedback (10 mins)**

Ask each pair to sit together and verbally give feedback on the other person's writing while showing the review on their computer. Person A gives feedback to Person B for 5 minutes; then Person B gives feedback to Person B for 5 minutes.

**Closure (10 mins)**

Bring this activity to a close. Ask people for their impressions of the activity - What worked well? What didn't? Importantly, what did they learn? Make note of the feedback given. If most people found the activity useful, encourage them to arrange such 'group writing' sessions with their colleagues at their institution. Ask if anyone has ideas of what other kinds of writing activities can be accommodated during a workshop. For example, an AuthorAID partner - Sri Lanka Medical Association - have developed an innovative activity in which they hand out a published paper to the participants with the abstract deleted, and participants have to read the paper and draft an abstract. Then they are given the actual abstract to see how well it compares to the published one. Point this out as a possible activity - this would however only work when all the participants are from the same subject area.

Finally, ask the participants to email the review that they have done to you and to the respective author. If Internet connectivity is not available, use flash drives to collect copies of the reviews.

## *End-of-day reflection for day two*

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Refer to the section 'End-of-day reflection for day one'.

## *After day two*

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Refer to the section 'After day one'.

# Day three agenda

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## Preparation for day three

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Refer to the section 'Preparation for day two'.

## Morning review for day three

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Refer to the section 'Morning review for day two'.

## D3-S1: Citations and references

<b>Length of session</b>	30 minutes
<b>Session summary</b>	Citations and references may seem to be a boring topic, but accurate referencing is indispensable in research writing. In this session, participants are not told anything about citations and references. Instead, through discussions what they know already will be brought to the fore and structured.
<b>Visual aids and equipment</b>	PSL, sticky notes
<b>Resources (on the day)</b>	N/A
<b>Participant handbook to be used?</b>	No
<b>Guidance to facilitating learning activities</b>	<p><b>Functions of references (5 mins)</b></p> <p>Show the first slide of this activity and ask participants to discuss the functions of references with their elbow partner. Near the end of 5 minutes, ask people to mention some of the points they came up with. Then show the slide with some functions of references.</p> <p><b>Checklist for in-text citations and references (10 mins)</b></p> <p>Ask participants to sit in groups of four. Show the slide with the instructions. Ask them to write each point for the checklist on an individual sticky note. Ask participants to post their notes on the wall at the end of the activity - each group should post their checklist in a single vertical line.</p> <p><i>Some points to expect: every citation/reference should be placed in the correct place, the cited paper does indeed say what you think it says, citations and references should be formatted properly, all entries in the reference list should be cited somewhere in your paper, all citations should have a corresponding entry in the reference list.</i></p> <p><b>Viewing and aggregating (10 mins)</b></p> <p>Ask participants to walk around and view other groups' checklists. Encourage them to ask questions. And you could aggregate similar notes by sticking them together. Ask for a volunteer or co-trainer to take down the notes, type them up, and email them to all the participants.</p> <p><b>Closure (5 mins)</b></p> <p>Make some overall comments on the outputs of the participants, and commend any excellent points that came up.</p>

## D3-S2: The methods section of a research paper

<b>Length of session</b>	60 minutes
<b>Session summary</b>	At this point in the workshop, the typical sections in the body of a research paper will be considered one-by-one. We start with the methods section because this is considered one of the most straightforward sections to write, in that it is a report of what was done in the research.
<b>Visual aids and equipment</b>	PSL
<b>Resources (on the day)</b>	Activity sheet for identifying missing information in a methods section
<b>Participant handbook to be used?</b>	No
<b>Guidance to facilitating learning activities</b>	<p><b>Purpose of methods (10 mins)</b></p> <p>Show the first slide of this activity and ask participants to discuss the purpose of the methods section with their elbow partner. Near the end of 10 minutes, ask people to mention some of the points they came up with. Then show the slide with some of the purposes.</p> <p>Make the point that a high level of detail and accuracy is important in the methods section.</p> <p><b>Documenting directions (15 mins)</b></p> <p>Show the slide with the instructions for this part. Split participants into three or four groups. It's fine to have a large number of people in a single group. This activity involves participants leaving the room and walking to the entrance of the building. If you feel the entrance is too far, change the instructions to make the activity more feasible.</p> <p><b>Discussing directions (10 mins)</b></p> <p>Ask participants to put up their sheets on the wall with sellotape, and have everyone look at what others have done. There could be some interesting outputs, e.g. some groups may have documented directions with minute details, while others may have given broad details. Get participants to think about what is the right level of detail in the methods section and why. This activity is just to get participants thinking about the level of detail in the methods section. There's no right or wrong answer.</p> <p><b>Hot-seat activity (10 mins)</b></p> <p>Take on the role of someone who claims to have invented 'herbal fuel for vehicles'. Declare your invention and ask participants to quiz you on the methods that you used. Be evasive when answering them and do not provide any specific information. For example, if they ask 'which herbs did you use', say something like 'a mixture of herbs found in a forest to the east'. Spend about 5 minutes doing this. Then ask participants what they thought of your answers. They should be able to guess you did not provide any specific information. Then point out that the case of 'herbal fuel' actually happened in India in the 1990s and the man who invented it was found to be a fraudster. He declined to create the fuel in the presence of scientists, for example.</p> <p>End this activity with the point that without detailed and accurate methods, research discoveries will not be taken seriously.</p>

**Guidance to facilitating learning activities (continued)**

**Identifying missing information in methods (10 mins)**

Ask participants to work with their elbow partner for this activity. Give to each pair the excerpt of the doctored methods section and show the slide with the instructions. Near the end of 10 minutes, show the document with the answer key on the projector and point out the highlighted parts that contain specific information that was missing in the activity sheet. Ask participants if they identified any of these bits.

**Closure (5 mins)**

Open the floor for a couple of questions. This would have been a fast-paced activity and hopefully leading into a lunch break or coffee break, so encourage participants to continue the discussion over the break.



## D3-S3: The introduction section of a research paper

<b>Length of session</b>	60 minutes
<b>Session summary</b>	The main activity in this session involves reviewing published papers to check the structure of the introduction.
<b>Visual aids and equipment</b>	PSL, highlighter pens (of four colours, one set for each group),
<b>Resources (on the day)</b>	Cards with the elements of the introduction section written out D3-S3 – Introduction section of a published paper
<b>Participant handbook to be used?</b>	No
<b>Guidance to facilitating learning activities</b>	<p><b>Purpose of introduction (10 mins)</b></p> <p>Show the first slide of this activity and ask participants to discuss the purpose of the introduction section with their elbow partner. Near the end of 10 minutes, ask people to mention some of the points they came up with. Then show the slide with some purposes.</p> <p><b>Structure of the introduction (10 mins)</b></p> <p>Ask participants to sit in groups of three. Give each group four cards, each with one phrase written on it (see the on-the-day resource for this activity).</p> <p>State that these are the typical elements of the introduction section of a research paper. What participants should do is put these elements in the correct order by numbering the cards.</p> <p>Give 5 minutes for participants to do the ordering and 5 minutes to report on what they have done. Then show the slide with the answer key.</p> <p><b>Quiz: Guess the shape (5 mins)</b></p> <p>Show the slide with the different shapes. Ask participants to guess which shape best represents the introduction and why. Give them 2 minutes to come up with their response and say that the person who identifies the correct shape and provides a good rationale will get a prize (chocolate bar or pen). Then show the slide with the answer key.</p> <p><b>Reviewing a published introduction section (20 mins)</b></p> <p>Ask participants to sit in groups of three or four, so that there are a maximum of five groups. Give each group a printout of the resource 'D3-S3 – Introduction section of a published paper' and ask them to highlight the four typical elements of the introduction (from the 'structure' activity in this session) in different colours. Give highlighter pens of four different colours to each group. Ask them to make notes alongside if they have anything to add.</p> <p><b>Viewing group work (10 mins)</b></p> <p>Ask each group to put up the paper they have reviewed on the wall. Then everyone should walk around and look at what other groups have done and think about whether the typical structure appears to be present in these introduction sections. Encourage participants to ask each other questions.</p> <p><b>Closure (5 to 10 mins)</b></p> <p>Invite two or three comments from participants on what they learnt in this activity. Ask when might be a good time to write the introduction during the writing of a paper.</p> <p>Point out that an annotated version of the entire journal article that contains this introduction is available on the AuthorAID resource library. Present the slide that has the link to this resource.</p>

## D3-S4: The results and discussion of a research paper

<b>Length of session</b>	60 minutes
<b>Session summary</b>	In this session participants create a mind map about the results and discussion section.
<b>Visual aids and equipment</b>	PSL, two flipcharts per group, marker pens, flipchart stand
<b>Resources (on the day)</b>	N/A
<b>Participant handbook to be used?</b>	No
<b>Guidance to facilitating learning activities</b>	<p><b>Setting the context (5 mins)</b></p> <p>This activity is almost entirely about the different groups creating mind maps about the results and discussion section. Show the example of a mind map on the slide and say that this is the kind of output you're looking for.</p> <p><b>Creating the mind map (30 mins)</b></p> <p>Group the participants so that there are four or five groups, not more. Give each group two flipcharts, with 'Results and Discussion' written in the centre. One flipchart is for rough work and the other for final work, if needed. Tell the groups that they can look up published papers online to get ideas on what should be included in the results and discussion sections.</p> <p>Attend to each group for a minute at the beginning of the activity to make sure they have got the point of the mind map, as it's a visual structure and some people may not have heard of it before.</p> <p>Then walk around every 5 minutes or so to see how the groups are doing, and intervene if necessary, e.g. if you find that a group is not developing a mind map but something else.</p> <p>Remind people of the time remaining at the 15 minute, 20 minute and 25 minute points.</p> <p><b>Presenting the mind map (5 mins per group)</b></p> <p>Ask each group to put their flipchart on the flipchart stand and present what they have done to the class. Encourage the participants to ask questions to clarify things. Commend good points and offer constructive feedback.</p> <p><b>Closure (5 mins)</b></p> <p>Invite two or three comments from participants on what they learnt in this activity. Provide overall comments on the participants' outputs.</p>

## End-of-day reflection for day three

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Refer to the section 'End-of-day reflection for day one'.

## After day three

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Refer to the section 'After day one'.

# Day four agenda

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## *Preparation for day four*

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Refer to the section 'Preparation for day two'.

## *Morning review for day four*

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Refer to the section 'Morning review for day two'.

## *D4-S1: Figures and tables*

<b>Length of session</b>	45 minutes
<b>Session summary</b>	In this session participants learn to critique figures and tables, and they make checklists for both. Before this session begins, put up printouts of the figures and tables for this session on the wall.
<b>Visual aids and equipment</b>	PSL, post-it notes in two colours
<b>Resources (on the day)</b>	Figures and tables document
<b>Participant handbook to be used?</b>	No
<b>Guidance to facilitating learning activities</b>	<p><b>Setting the context (5 mins)</b></p> <p>Show the question on the slide. The correct answer is 'any section'. Figures and tables can appear in any section of the body of a research paper (except the abstract, unless it's a graphical abstract or special kind of abstract).</p> <p><b>Reviewing figures (15 mins)</b></p> <p>Ask participants to walk around the room to look at the figures and the tables that have been posted on the wall. These are all from published research papers. Ask them to make notes in their notepad on the problems with these and to have informal discussions with other participants.</p> <p><b>Reporting on the problems (10 mins)</b></p> <p>Ask for volunteers to comment on the problems they noticed. Provide comments or feedback based on the answer key. Go over the answer key document and tell the participants where they can find it online (the link is on the first page of this document).</p> <p><b>Checklist for tables and figures (10 mins)</b></p> <p>Ask participants to work in groups of three to develop a checklist for tables and figures. They should type this up on a computer.</p> <p><b>Closure (5 mins)</b></p> <p>Ask for a volunteer who can consolidate the checklists to make a master checklist. Then ask the groups to email their checklist to this person. Follow up with this person later to get the master checklist and send this out to everyone.</p> <p>Close this session by saying that making figures and tables is an intricate task. Authors are sure to understand their own figures and tables no matter how complex, but they must keep the reader in mind. Show the slide with Einstein's quote.</p>

## D4-S2: Developing a publication strategy

<b>Length of session</b>	90 minutes
<b>Session summary</b>	This is one of the longer workshop sessions and the point of the session is to get participants to think beyond just writing a paper and look at research communication strategically.
<b>Visual aids and equipment</b>	PSL, one flipchart for each group
<b>Resources (on the day)</b>	N/A
<b>Participant handbook to be used?</b>	Yes
<b>Guidance to facilitating learning activities</b>	<p><b>Big picture - getting a paper ready for submission (10 mins)</b></p> <p>Ask participants to work with their elbow partner to answer the question shown on the first slide for this session and note the steps down on a piece of paper. Give them 5 minutes. Then show the slide with the steps and ask participants how many wrote something like this and whether anyone had written something very different. Emphasize the point about identifying the target journal at the start of the process.</p> <p><b>Flowchart - from submission to publication (10 mins)</b></p> <p>Show the D4-S2 image file and tell participants it's also in the handbook. Give them 5 minutes to look at the flowchart in their handbook or on the screen. Then ask what they think of it - What stands out? What is surprising?</p> <p><b>What does 'publication success' mean? (15 mins)</b></p> <p>Ask participants to work with their elbow partner to jot down some points in response to the question on the following slide. Give 8 minutes for the discussion. Ask for volunteers to share some points - they shouldn't repeat what someone else has already said. Comment on interesting points. Then show the slide with what you think of as publication success - edit this slide if necessary to make it match your views. Offer justification for this slide.</p> <p><b>Developing a publication strategy (40 mins)</b></p> <p>Ask participants to sit in groups of four.</p> <p>Show the activity question on the slide.</p> <p>Give each group a flipchart to jot down their ideas. The flipchart does not need to be presented so they can write whatever they want on it. One person in each group should act as a scribe and document the group's strategy in a Word document (or as a flowchart or another visual representation), which should then be emailed to you.</p> <p>The strategy should be as detailed as possible - not just some top-level points.</p> <p>Walk to each group at the start of the activity to make sure they have understood what they have to do. Then walk around every 5 to 7 minutes. Offer support if you think any group is going off target or seems to be stuck.</p> <p>When 25 minutes have passed, remind the groups that every group's scribe should have started documenting their strategy. Call out the remaining time at 30 minutes and 35 minutes. Give a five minute extension if people need it, but not more.</p> <p>The activity should end with the scribes emailing their strategy document to you, or by copying it on flash drives. This must be done - don't leave it off for later as you'll be left following up with them.</p>

**Guidance to facilitating learning activities (continued)**

**Closure (10 mins)**

Ask participants if they're happy with the strategy they developed and whether they think it'll be feasible to implement. Ask them to share some top points or suggestions for others. Share any experience you may have with developing and implementing a publication strategy. Close the activity by saying that you'll put together the strategy documents from all the groups and share them with everyone.

## *Preparation for the next session (D4-S3)*

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Before participants break for lunch, give one index card to each participant. Show the slide with the instructions for this activity. Ask participants to leave their filled-out card at your desk as they go out for lunch. Make plans to eat your lunch at your desk if you can, so that you can look at the cards and organize them.

Try to organize questions into different themes and pick up to five questions that you think should feed into the Q&A session. Think of some justification for why you picked these questions so that participants don't feel bad that their question was not picked.

Feel free to rephrase these questions to make them clearer and write down the revised questions on new index cards.

By this point of the workshop, you should have identified who are the most vocal participants and are good at summarizing and expressing viewpoints. Assuming you're going to set up five groups for the Q&A session, try to think of five people and approach them during the lunch break to offer them the role of 'coordinator'. Guidelines for this role are given in the handbook.

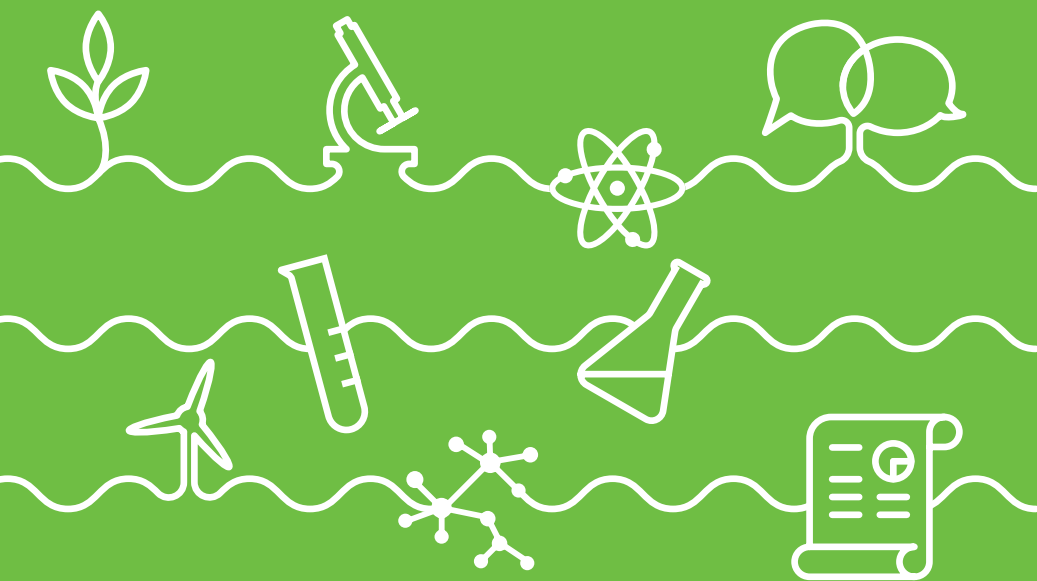
## D4-S3: Q&A session

<b>Length of session</b>	45 minutes
<b>Session summary</b>	This is a wrap-up session for the workshop. Participants get to discuss burning questions and come up with answers.
<b>Visual aids and equipment</b>	PSL, one flipchart per group
<b>Resources (on the day)</b>	Index cards with burning questions that you have selected
<b>Participant handbook to be used?</b>	Yes
<b>Guidance to facilitating learning activities</b>	<p><b>Preparation (10 mins)</b></p> <p>Ask participants to seat themselves four to a table. Make sure there's one coordinator at each different table. If you haven't yet identified coordinators (see the 'preparation' section above), ask for a volunteer at each table to be a coordinator.</p> <p>Once the coordinators have been identified, show the slide with the activity instructions.</p> <p>Give each group one flipchart and ask them to use only one laptop. Ask them to clear away stuff they don't need.</p> <p>Explain what you did to identify the top burning questions. Then hand out the index cards with these questions to the groups – one card per group.</p> <p><b>World café (20 to 25 mins)</b></p> <p>Guide participants through the activity. Initially you may need to orchestrate the shifting of participants from one table to another. Resolve any confusion or questions about the structure of this activity within the first 5 minutes. Make sure participants are moving from one table to another, but allow some leeway so that participants don't get stressed out.</p> <p><b>Summarizing (10 to 15 mins)</b></p> <p>Ask the coordinator at each table to summarize the key points that came out of the discussions. Share your thoughts. Ask the coordinators to type up all the points and share it with you for circulating to the whole group (if there is no time to do this during this session, ask the coordinators to do it soon after the workshop ends).</p>

## Closing the workshop

This is the last session of the workshop. Some examples of things you can do in this session:

- Ask participants to share their thoughts on the workshop orally
- Ask participants to fill out a feedback form
- Award certificates
- Tell participants about any follow-on activities after the workshop, any monitoring & evaluation surveys you may run in the future, whether there is any provision for participants to stay in touch with each other and you, etc.
- Point out the AuthorAID website



AUTHORAID

*Research Writing Workshop*  
**Participant Handbook**

This handbook is for you to keep.  
Please feel free to write anywhere on it.

# Day one

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## *D1-S2: Establishing the right mindset to be a research author*

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### **Fixed mindset vs growth mindset**

See [www.brainpickings.org/2014/01/29/carol-dweck-mindset](http://www.brainpickings.org/2014/01/29/carol-dweck-mindset) for a summary.

### **Growth mindset to become a better writer**

In this workshop we won't be talking about the linguistic aspects of research writing, such as English grammar, writing style and vocabulary. Yet good writing skills are essential to become a successful research author. Do you have a growth mindset to check and improve your writing skills?

There are a lot of resources online to help you become a better writer, and many are free of cost. A couple of suggestions are given below.

1. Visit [coursera.org](http://coursera.org) and [edx.org](http://edx.org) to look for online courses in English writing
2. Read the classic work 'The Elements of Style', the full text of which is freely available online as the book is out of copyright. Google it.

You may also find it useful to seek a writing mentor who can give you feedback on your writing. Check out the AuthorAID mentoring scheme: [www.authoraid.info/en/mentoring](http://www.authoraid.info/en/mentoring)

## *D1-S3: Research and publishing ethics*

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The following resources may help you learn more about research ethics:

Avoiding Plagiarism, Self-plagiarism, and Other Questionable Writing Practices: A Guide to Ethical Writing (Office of Research Integrity, USA)	<a href="http://ori.hhs.gov/avoiding-plagiarism-self-plagiarism-and-other-questionable-writing-practices-guide-ethical-writing">ori.hhs.gov/avoiding-plagiarism-self-plagiarism-and-other-questionable-writing-practices-guide-ethical-writing</a>
How to Recognize Plagiarism: Tutorials and Tests (Indiana University)	<a href="http://www.indiana.edu/~academy/firstPrinciples/index.html">www.indiana.edu/~academy/firstPrinciples/index.html</a>
Scientific Misconduct (Wikipedia)	<a href="http://en.wikipedia.org/wiki/Scientific_misconduct">en.wikipedia.org/wiki/Scientific_misconduct</a>
Defining the Role of Authors and Contributors (International Committee of Medical Journal Editors)	<a href="http://www.icmje.org/recommendations/browse/roles-and-responsibilities/defining-the-role-of-authors-and-contributors.html">www.icmje.org/recommendations/browse/roles-and-responsibilities/defining-the-role-of-authors-and-contributors.html</a>
Conflict of Interest in Research (University of California, San Francisco)	<a href="http://coi.ucsf.edu">coi.ucsf.edu</a>
Retraction Watch	<a href="http://retractionwatch.com">retractionwatch.com</a>



## *D1-S4: Defining the focus and contribution of your paper*

---

### **Instructions for the essay**

Write a short essay (300 to 400 words long) addressing the following questions. This essay should clearly describe the **focus of your research** and the **contribution of your research manuscript** in advancing knowledge in your field.

We suggest that you write out the questions given below in your document and answer each one. You may also use your own headings as long as they are related to the questions given.

This is not a formal research writing task, so we do not expect you to provide citations – although you are welcome to add any citations you know of. Also, you do not have to provide accurate numerical data. Rough or tentative data is fine.

Don't worry about the stage of your actual manuscript (completed, work in progress, or hardly begun) or if your research is not yet complete; just write about what you've done so far.

Now open a blank document on your computer to write your essay. Once you are done, email it to your designated workshop peer.

- 1. What is the focus of your research project?**
- 2. What has already been done or is already known in this area?**
- 3. What have you done to add to what is known?**
- 4. What have you found?**
- 5. How do you see your manuscript advancing knowledge in your field?**

You should receive an assessment form by email from the workshop facilitator for the assessment phase of this activity.

## *D1-S5: Identifying appropriate target journals*

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'Think. Check. Submit.' is a campaign to help researchers identify trusted journals and help researchers stay away from suspicious journals. INASP is one of the organizations behind this campaign. Note that this website does not contain any list of 'approved' or 'suspicious' journals. It is meant to help you think.

[thinkchecksubmit.org](http://thinkchecksubmit.org)

How to target a journal that's right for your research (SciDev.Net). This article covers the impact factor and the existence of fake impact factors, the open access model, predatory journals, etc.

[www.scidev.net/global/publishing/practical-guide/target-journal-right-research-communicate-publish.html](http://www.scidev.net/global/publishing/practical-guide/target-journal-right-research-communicate-publish.html)

**Note:** Jeffrey Beall's popular but controversial list of predatory journals suddenly disappeared in January 2017. It seems unlikely that this website will be back online.

# Day two

## D2-S3: Writing the working title and abstract of your paper

Please refer to the following example to develop your abstract during this session.

OPEN ACCESS Freely available online PLOS ONE

### Crop Pollination Exposes Honey Bees to Pesticides Which Alters Their Susceptibility to the Gut Pathogen *Nosema ceranae*

Jeffery S. Pettis<sup>1</sup>, Elinor M. Lichtenberg<sup>2</sup>, Michael Andree<sup>3</sup>, Jennie Stitzinger<sup>2</sup>, Robyn Rose<sup>4</sup>, Dennis vanEngelsdorp<sup>2\*</sup>

1 Bee Research Laboratory, USDA-ARS, Beltsville, Maryland, United States of America, 2 Department of Entomology, University of Maryland, College Park, College Park, Maryland, United States of America, 3 Cooperative Extension Butte County, University of California, Oroville, California, United States of America, 4 USDA-APHIS, Riverdale, Maryland, United States of America

**Abstract**

Recent declines in honey bee populations and increasing demand for insect-pollinated crops raise concerns about pollinator shortages. Pesticide exposure and pathogens may interact to have strong negative effects on managed honey bee colonies. Such findings are of great concern given the large numbers and high levels of pesticides found in honey bee colonies. Thus it is crucial to determine how field-relevant combinations and loads of pesticides affect bee health. We tested pollen from bee hives in seven major crops to determine **1**) what types of pesticides bees are exposed to when they forage for pollination of various crops and **2**) how field-relevant pesticide blends affect bees' susceptibility to the gut pathogen *Nosema ceranae*. Our samples represent pollen collected by foragers for use by the colony, and do not necessarily represent foragers' roles as pollinators. In blueberry, cranberry, cucumber, pumpkin and watermelon bees collected pollen exclusively from weeds and wildflowers during our sampling. Thus more attention must be paid to how honey bees are exposed to pesticides outside of the field in which they are placed. We detected 35 different pesticides in the sample pollen, and found high fungicide loads. The insecticides esfenvalerate and phosmet were at a concentration higher than their median lethal dose in at least one pollen sample. While fungicides are typically seen as fairly safe for honey bees, we found a **3**) increased probability of *Nosema* infection in bees that consumed pollen with a higher fungicide load. Our results indicate a need for research on sub-lethal effects of fungicides and other chemicals that bees placed in an agricultural setting are exposed to.

**Citation:** Pettis JS, Lichtenberg EM, Andree M, Stitzinger J, Rose R, et al (2015) Crop Pollination Exposes Honey Bees to Pesticides Which Alters Their Susceptibility to the Gut Pathogen *Nosema ceranae*. PLoS ONE 8(7): e70182. doi:10.1371/journal.pone.0171822

**Editor:** Fabio S. Nascimento, Universidade de São Paulo, Faculdade de Filosofia Ciências e Letras de Ribeirão Preto, Brazil

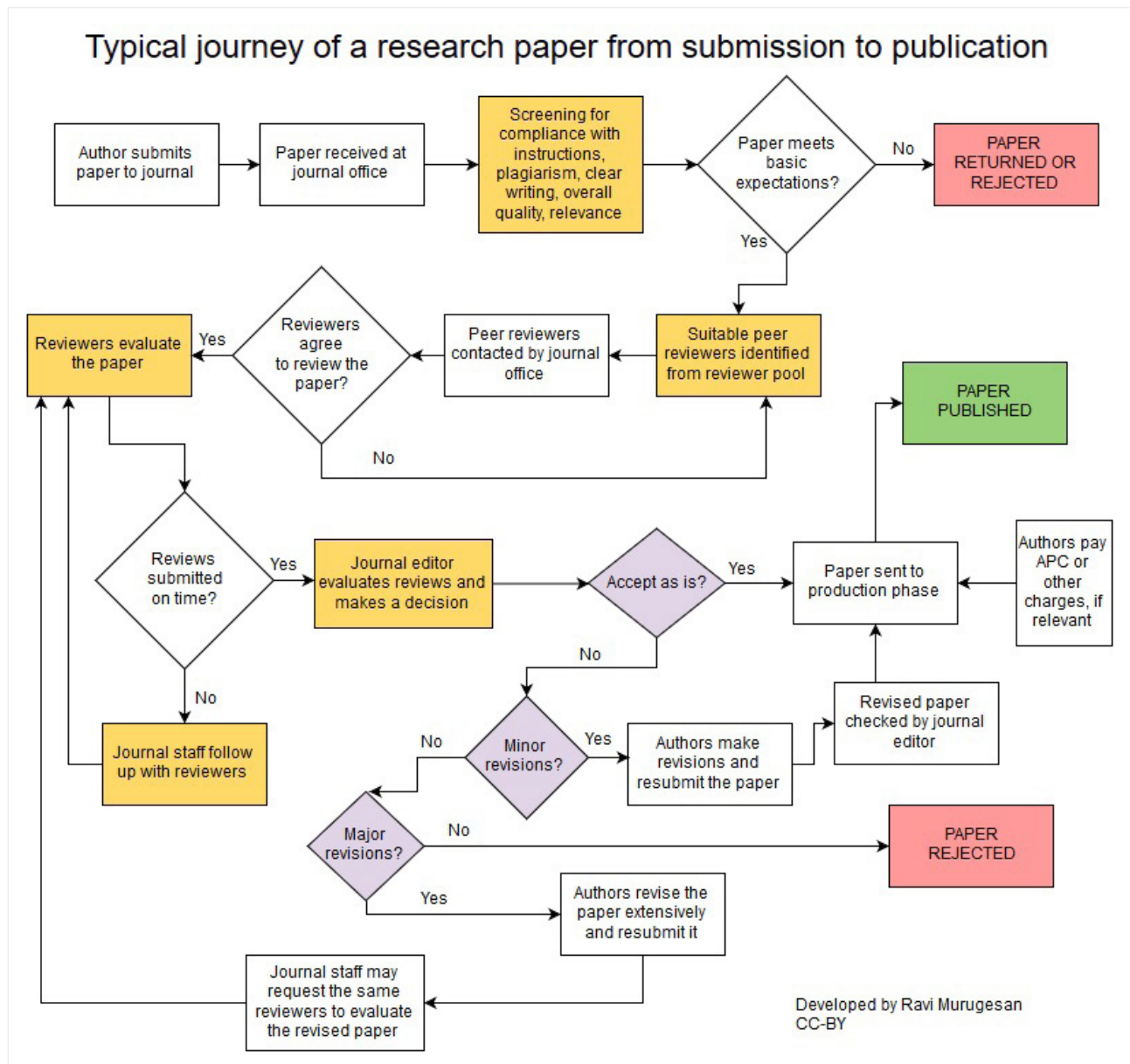
**Annotations:**

- Informative, descriptive title in sentence form with a verb. Please note that not all publications accept sentence titles.
- Overall, abstract is informative and concise.
- Use of "We" with active voice.
- Introductory sentences provide background and context.
- Results concisely summarized.
- Principal objectives are clearly identified with numbers.
- Principal conclusion places paper in appropriate context with other studies and highlights areas for future research.

(Adapted from [www.authoraid.info/en/resources/details/648](http://www.authoraid.info/en/resources/details/648))

# Day four

## D4-S2: Developing a publication strategy



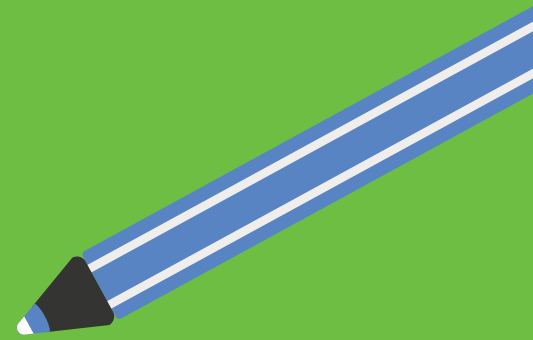
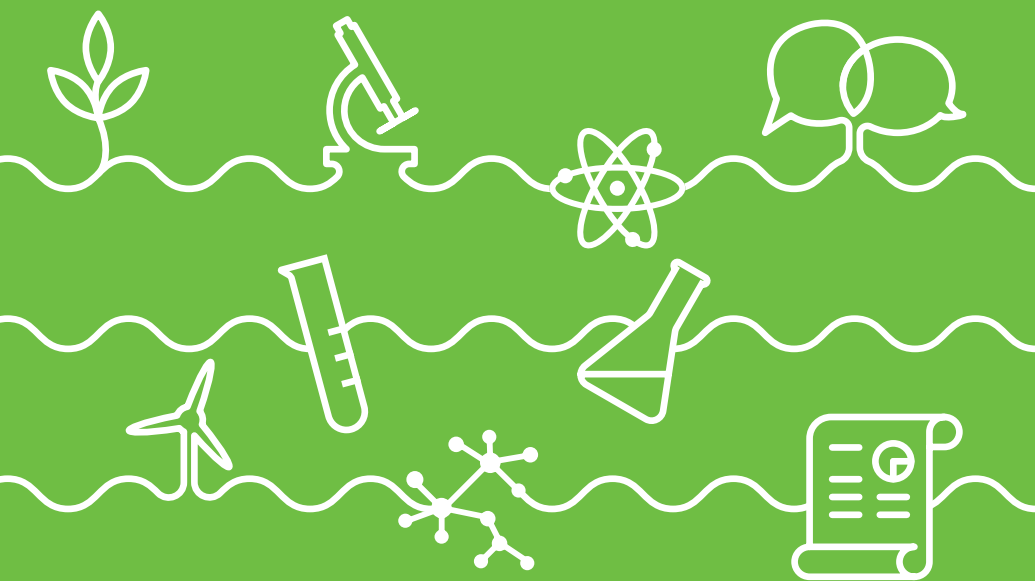
## *D4-S3: Q&A session*

---

### **Guidelines for the coordinator**

If you've volunteered or been selected to play the role of 'coordinator' at your table, please do the following:

- You should remain at your table throughout the session. Only the other participants will shift from one table to another.
- You will be facilitating a number of mini discussions at your table. At each discussion, participants will address the question shown on the index card.
- At every mini discussion, act as the note-taker and summarize the main points. You can of course contribute to the discussions but please don't get drawn away from making notes.
- When a new group of participants joins your table, summarize to them the points that have come up so far, so that they don't repeat the same things.
- Keep discussions focused on the question at hand, and interrupt when you detect any digression or repetition.
- You should also act as a time-keeper. Make sure each group is at your table for not more than 5 minutes. Synchronize your work with the other coordinators.
- At the end of the Q&A session, summarize the top points to the entire group.



AUTHORAID

*Research Writing Workshop*  
**Resources**

This handbook is for you to keep.  
Please feel free to write anywhere on it.

# Resources

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## *D1-S4: Defining the focus and contribution of your paper*

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### **Peer assessment form**

Once you have received your designated peer's essay, please evaluate it by writing your comments in the boxes on the right. Please provide constructive feedback. Email the completed form to your peer and the workshop facilitator.

<b>Question the author should have addressed in their essay</b>	<b>How clear is the author's response? Do you have any suggestions to improve the clarity or content?</b>
What is the focus of the author's research project?	
What has already been done or is already known in this area?	
What has the author done to add to what is known?	
What has the author found?	
How would the author's manuscript advance knowledge in their field?	



## *D3-S2: The methods section of a research paper*

---

### **Activity: Identifying missing information**

The below excerpt is an edited version of a part of the methods section of a published paper. Try to identify the places that have missing, vague or incomplete information in this excerpt. Your job is not to provide the information of course – it's just to look for gaps or ambiguity.

Our study region was the Central Highlands of Victoria, located north east of the city of Melbourne. It includes the Central Highlands Regional Forest Agreement (RFA) area, which is approximately 1,100,000 hectares. It comprises 35% state forest, 16% formal reserves, and 4% other public land. Various kinds of forest covers approximately 64% of the total area of the RFA region, including much of mainland Australia's Mountain Ash forest. These forests provide habitat for a number of threatened and endemic species, but have also been a major source of pulpwood and sawlogs for various industries since the 1930s.

Wildfire is the main form of natural disturbance in forests across this area. The impacts of fire are variable, ranging from complete stand replacement after severe fires, to instances where the previous stand survives into the new stand. Extensive salvage logging following a few fires in recent history resulted in sizable areas of even-aged stands.

The existing reserve network in the Central Highlands RFA was established over several decades. The current Leadbeater's Possum Reserve was established in 2008, consists of both National Park and State Forest, and is dispersed across the region in small units.



## *D3-S2: The methods section of a research paper*

---

### **Answer key: Identifying missing information**

The below excerpt is an edited version of a part of the methods section of a published paper. Try to identify the places that have missing, vague or incomplete information in this excerpt. Your job is not to provide the information of course – it's just to look for gaps or ambiguity.

#### **Excerpt of the actual methods section**

Paper: Improving the Design of a Conservation Reserve for a Critically Endangered Species, PLOS ONE, 25 January, 2017 [dx.doi.org/10.1371/journal.pone.0169629](https://doi.org/10.1371/journal.pone.0169629)

Our study region was the Central Highlands of Victoria, located north east of the city of Melbourne in the Australian state of Victoria (37°14' S 144°59' E, 38° 5' S 146°27' E). It includes the Central Highlands Regional Forest Agreement (RFA) area, which is approximately 1,100,000 hectares. It comprises 35% state forest, 16% formal reserves, 4% other public land with the remainder private land. Various kinds of forest covers approximately 64% of the total area of the RFA region, including much of mainland Australia's Mountain Ash forest. These forests provide habitat for a number of threatened and endemic species, but have also been a major source of pulpwood and sawlogs for various industries since the 1930s.

Wildfire is the main form of natural disturbance in forests across this area. The impacts of fire are variable, ranging from complete stand replacement after severe fires, to instances where the previous stand survives into the new stand. Extensive salvage logging following the 1939, 1983 and the 2009 fires resulted in sizable areas of even-aged stands.

The existing reserve network in the Central Highlands RFA was established over several decades, beginning in 1928. The current Leadbeater's Possum Reserve (30,500 ha) was established in 2008, consists of both National Park and State Forest, and is dispersed across the region in small units ranging from 12 ha to 3353 ha.

## *D3-S3: The introduction section of a research paper*

---

Make as many sets of cards as there are groups.



<p>Information on importance of topic</p>	<p>Highlights of relevant previous research</p>
<p>Identification of unanswered question(s)</p>	<p>Approach you used to seek the answer(s)</p>

## *D3-S3: Introduction section of a published paper*

---

Article: Pettis JS, Lichtenberg EM, Andree M, Stitzinger J, Rose R, et al. (2013) Crop Pollination Exposes Honey Bees to Pesticides Which Alters Their Susceptibility to the Gut Pathogen *Nosema ceranae*. PLOS ONE 8(7): e70182. [doi.org/10.1371/journal.pone.0070182](https://doi.org/10.1371/journal.pone.0070182)

### **Introduction section of this article**

Honey bees, *Apis mellifera*, are one of the most important pollinators of agricultural crops [1]. Recent declines in honey bee populations in many North American and European countries [2]–[4] and increasing cultivation of crops that require insects for pollination [5] raise concerns about pollinator shortages [5], [6]. Habitat destruction, pesticide use, pathogens and climate change are thought to have contributed to these losses [2], [7], [8]. Recent research suggests that honey bee diets, parasites, diseases and pesticides interact to have stronger negative effects on managed honey bee colonies [9], [10]. Nutritional limitation [11], [12] and exposure to sub-lethal doses of pesticides [13]–[16], in particular, may alter susceptibility to or severity of diverse bee parasites and pathogens.

Recent research is uncovering diverse sub-lethal effects of pesticides on bees. Insecticides and fungicides can alter insect and spider enzyme activity, development, oviposition behavior, offspring sex ratios, mobility, navigation and orientation, feeding behavior, learning and immune function [9], [13], [14], [16]–[22]. Reduced immune functioning is of particular interest because of recent disease-related declines of bees including honey bees [3], [23]. Pesticide and toxin exposure increases susceptibility to and mortality from diseases including the gut parasite *Nosema* spp. [14], [15]. These increases may be linked to insecticide-induced alterations to immune system pathways, which have been found for several insects, including honey bees [22], [24]–[26].

Surveys of colony food reserves and building materials (i.e. wax) have found high levels and diversity of chemicals in managed colonies [18], [27], [28]. These mixtures have strong potential to affect individual and colony immune functioning. However, almost all research to-date on pesticides' effects on pathogen susceptibility fed a single chemical to test bees [16]. Because pesticides may have interactive effects on non-target organisms (e.g. [29]), it is crucial to determine how real world combinations and loads of pesticides affect bee health.

One pathogen of major concern to beekeepers is *Nosema* spp. The endoparasitic fungal infections of *N. apis* and *N. ceranae* adversely affect honey bee colony health, and can result in complete colony collapse [30]. Infection with *Nosema* in the autumn leads to poor overwintering and performance the following spring [31], and queens can be superseded soon after becoming infected with *Nosema* [32]. We chose *Nosema* as a model pathogen because earlier work [13], [14] had demonstrated an interaction with pesticide exposure.

This study addresses two important questions. 1) What types of pesticides might bees be exposed to in major crops? While multiple studies have characterized the pesticide profile of various materials inside a honey bee nest [27], [28], few have looked at the pollen being brought back to the nest. 2) How do field-relevant pesticide blends affect bees' susceptibility to infection by the *Nosema* parasite?

## D4-S1: Figures and tables

To be printed and put up on the wall.

THE STUDY LOCATIONS, TOTAL NUMBER OF COLONIES, TOTAL SPECIES AND GENERIC RICHNESS, TOTAL NUMBER OF SITES SURVEYED, TRANSECTS PER SITE AND TOTAL NUMBER OF PAIRED TRANSECTS PER LOCATION

Location	Number of colonies	Species richness	Generic richness	Number of sites	Number of transects per site	Total number of paired transects
Kosrae	10884	154	49	22	3	66
Majuro Atoll	9125	135	44	14	6 at 12 sites plus 3 at 1 site and 4 at 1 site	79
Ashmore and Cartier Reefs	9397	191	51	8	6	48

doi:10.1371/journal.pone.0083965.t001

Article Source: Predicting Coral Species Richness: The Effect of Input Variables, Diversity and Scale. Richards ZT, Hobbs J-PA (2014) Predicting Coral Species Richness: The Effect of Input Variables, Diversity and Scale. PLoS ONE 9(1): e83965. doi:10.1371/journal.pone.0083965. Licensed under CC-BY.

PEAK ASSIGNMENT FOR IMQC SPECTRUM OF INTACT MUSCLE TISSUE FROM ATLANTIC SALMON

Peak No.	Compound	Proton (s)	Chemical Shift (ppm)
1	All f.a. except n-3 f.a.	-CH <sub>3</sub>	0.92
2	Unassigned	-CH <sub>3</sub>	1.20
3	All f.a. except 20:5 and 22:6	-(CH <sub>2</sub> ) <sub>n</sub> -	1.37
4	Unsaturated f.a.	- <u>CH</u> <sub>2</sub> -CH = CH	2.02
5	All f.a. except 22:6	-CH <sub>2</sub> -COOR	2.32
6	Polyunsaturated f.a.	= CH- <u>CH</u> <sub>2</sub> -CH =	2.70
7	Anserine	-CH <sub>2</sub>	2.90
8	Creatine	-N-CH <sub>3</sub>	3.05
9	Choline/Anserine	-N-(CH <sub>3</sub> ) <sub>3</sub> /-CH <sub>2</sub>	3.20~3.30
10	Anserine	-N-CH <sub>3</sub>	3.75
11	Creatine	-CH <sub>2</sub>	3.90
12	Lactate	-CH	4.16
13	Histidine	-CH	7.23
14	Histidine	-CH	8.56

Chemical shifts are referenced to the water signal (4.80 ppm), f.a. = fatty acids  
doi:10.1371/journal.pone.0086422.t001

Article Source: High-Resolution <sup>1</sup>H NMR Spectroscopy of Fish Muscle, Eggs and Small Whole Fish via Hadamard-Encoded Intermolecular Multiple-Quantum Coherence. Cai H, Chen Y, Cui X, Cai S, Chen Z (2014) High-Resolution <sup>1</sup>H NMR Spectroscopy of Fish Muscle, Eggs and Small Whole Fish via Hadamard-Encoded Intermolecular Multiple-Quantum Coherence. PLoS ONE 9(1): e86422. doi:10.1371/journal.pone.0086422. Licensed under CC-BY.

SUMMARY STATISTICS FOR GENDER, AGE, AND THE FIVE FACTOR MODEL OF PERSONALITY

	<i>N</i>	<i>mean</i>	<i>standard deviation</i>	<i>skewness</i>
<b>Gender</b>	74859	0.62	0.49	−0.50
<b>Age</b>	74859	23.43	8.96	1.77
<b>Extraversion</b>	72709	−0.07	1.01	−0.34
<b>Agreeableness</b>	72772	0.03	1.00	−0.40
<b>Conscientiousness</b>	72781	−0.04	1.01	−0.09
<b>Neuroticism</b>	71968	0.14	1.04	−0.21
<b>Openness</b>	72809	0.12	0.97	−0.48

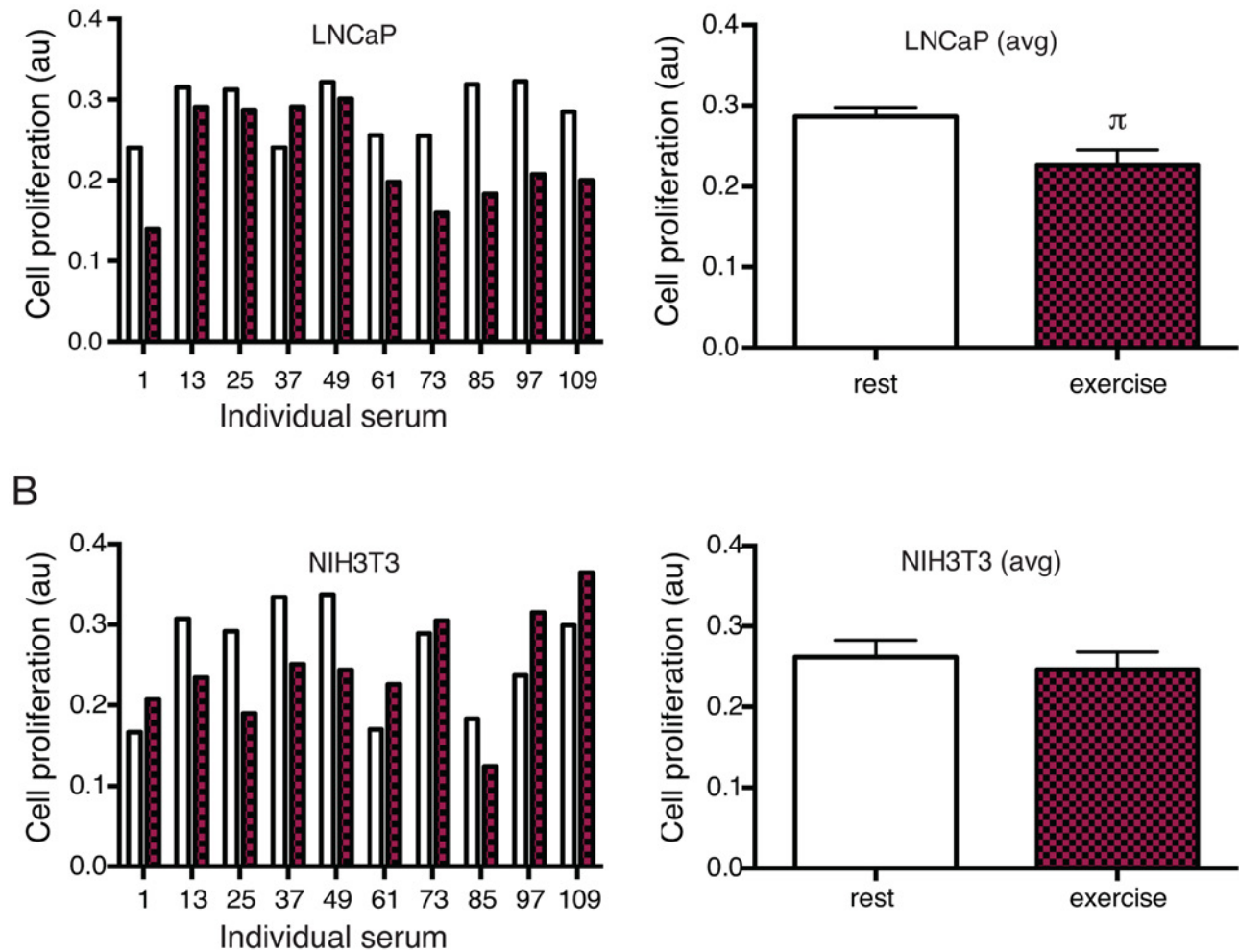
These represent the seven dependent variables studied in this work. Gender ranged from 0 (male) to 1 (female). Age ranged from 13 to 65. Personality questionnaires produce values along a standardized continuum.

doi:10.1371/journal.pone.0073791.t001

Article Source: Personality, Gender, and Age in the Language of Social Media: The Open-Vocabulary Approach. Schwartz HA, Eichstaedt JC, Kern ML, Dziurzynski L, Ramones SM, et al. (2013) Personality, Gender, and Age in the Language of Social Media: The Open-Vocabulary Approach. PLoS ONE 8(9): e73791. doi:10.1371/journal.pone.0073791. Licensed under CC-BY.

**GROWTH OF PROSTATE CANCER CELLS IS REDUCED WHEN EXPOSED TO EXERCISE SERUM FROM 9 OUT OF 10 INDIVIDUALS**

A) Effect on LNCaP cells incubated for 48 hours with resting (rest) and exercise serum (exercise) from 10 individuals separately. B) Effect of the 10 individual serums on NIH3T3 cells. Data show all individuals separately (left panel) and as mean  $\pm$  SEM. au (arbitrary units).  $\pi$  denotes a significant ( $p \leq 0.05$ ) difference between incubation with rest and exercise serum.

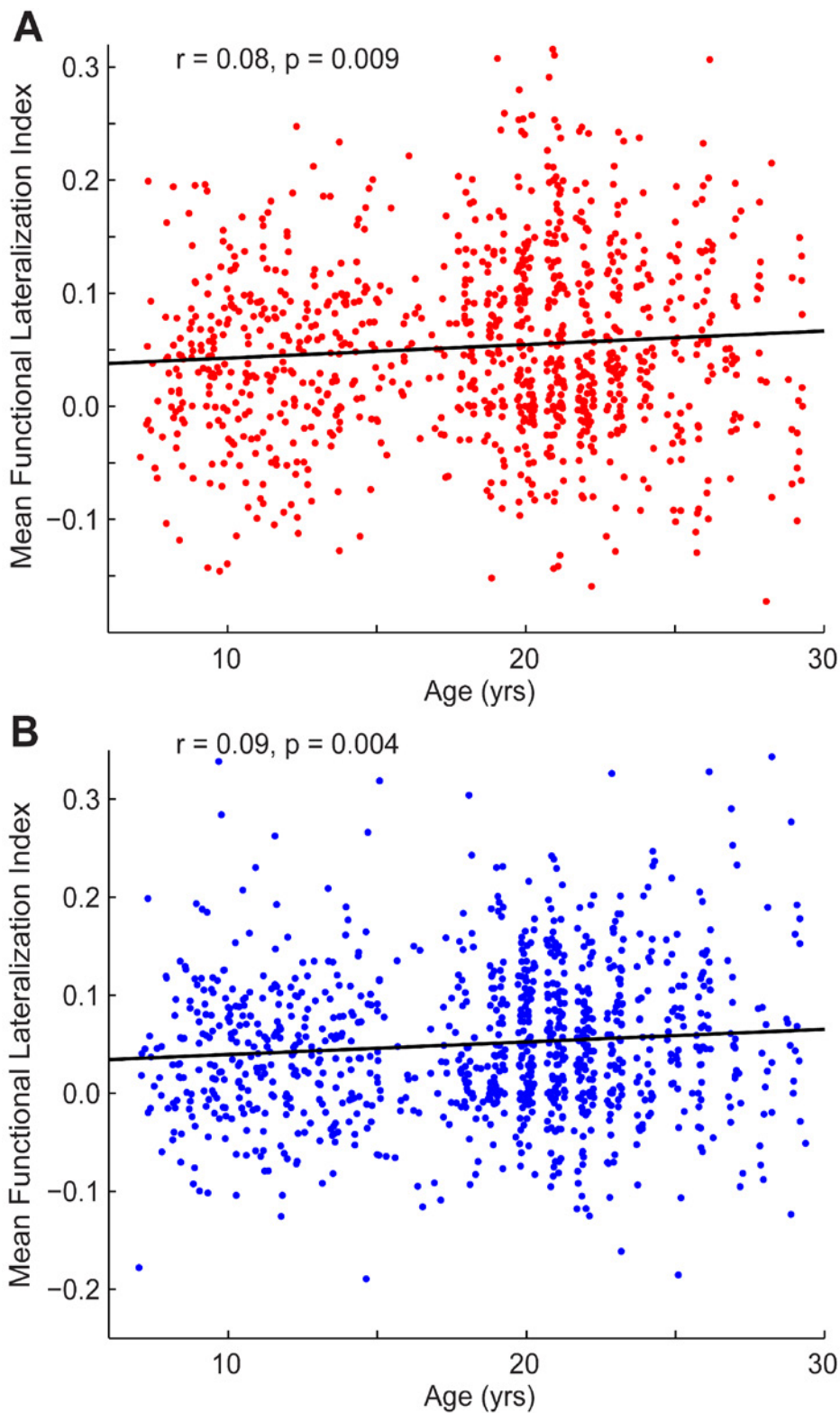


Article Source: Effect of Acute Exercise on Prostate Cancer Cell Growth Rundqvist H, Augsten M, Strömberg A, Rullman E, Mijwel S, et al. (2013) Effect of Acute Exercise on Prostate Cancer Cell Growth. PLoS ONE 8(7): e67579. doi:10.1371/journal.pone.0067579. Licensed under CC-BY.



## CHANGE IN MEAN FUNCTIONAL LATERALIZATION WITH AGE

Mean functional lateralization index for all connections between left (A) and right (B) hubs, respectively, is shown for each subject, plotted against subject age. Pearson correlation coefficients and p-values are shown above both plots.

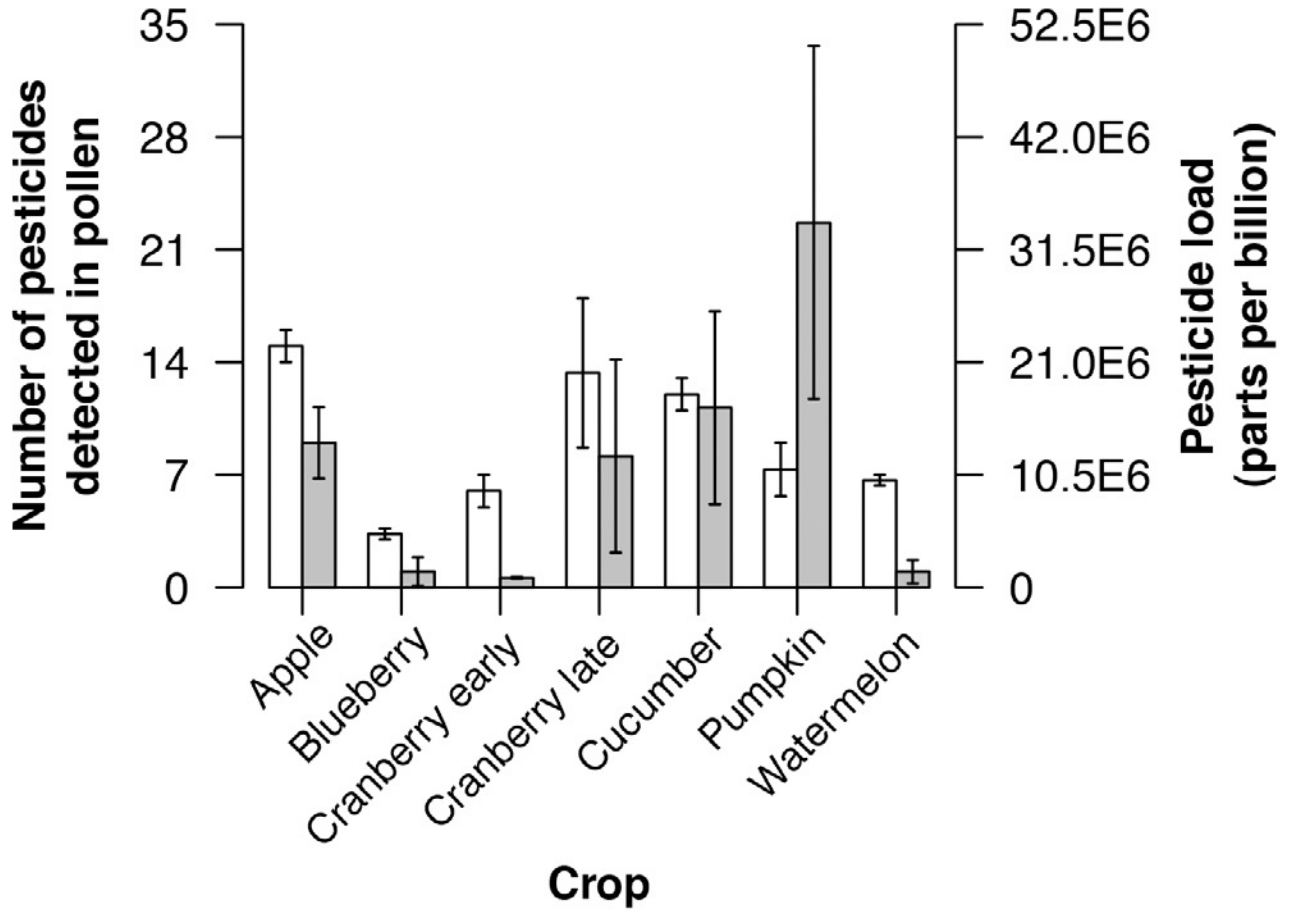


Article Source: An Evaluation of the Left-Brain vs. Right-Brain Hypothesis with Resting State Functional Connectivity Magnetic Resonance Imaging. Nielsen JA, Zielinski BA, Ferguson MA, Lainhart JE, Anderson JS (2013) An Evaluation of the Left-Brain vs. Right-Brain Hypothesis with Resting State Functional Connectivity Magnetic Resonance Imaging. PLoS ONE 8(8): e71275. doi:10.1371/journal.pone.0071275. Licensed under CC-BY.



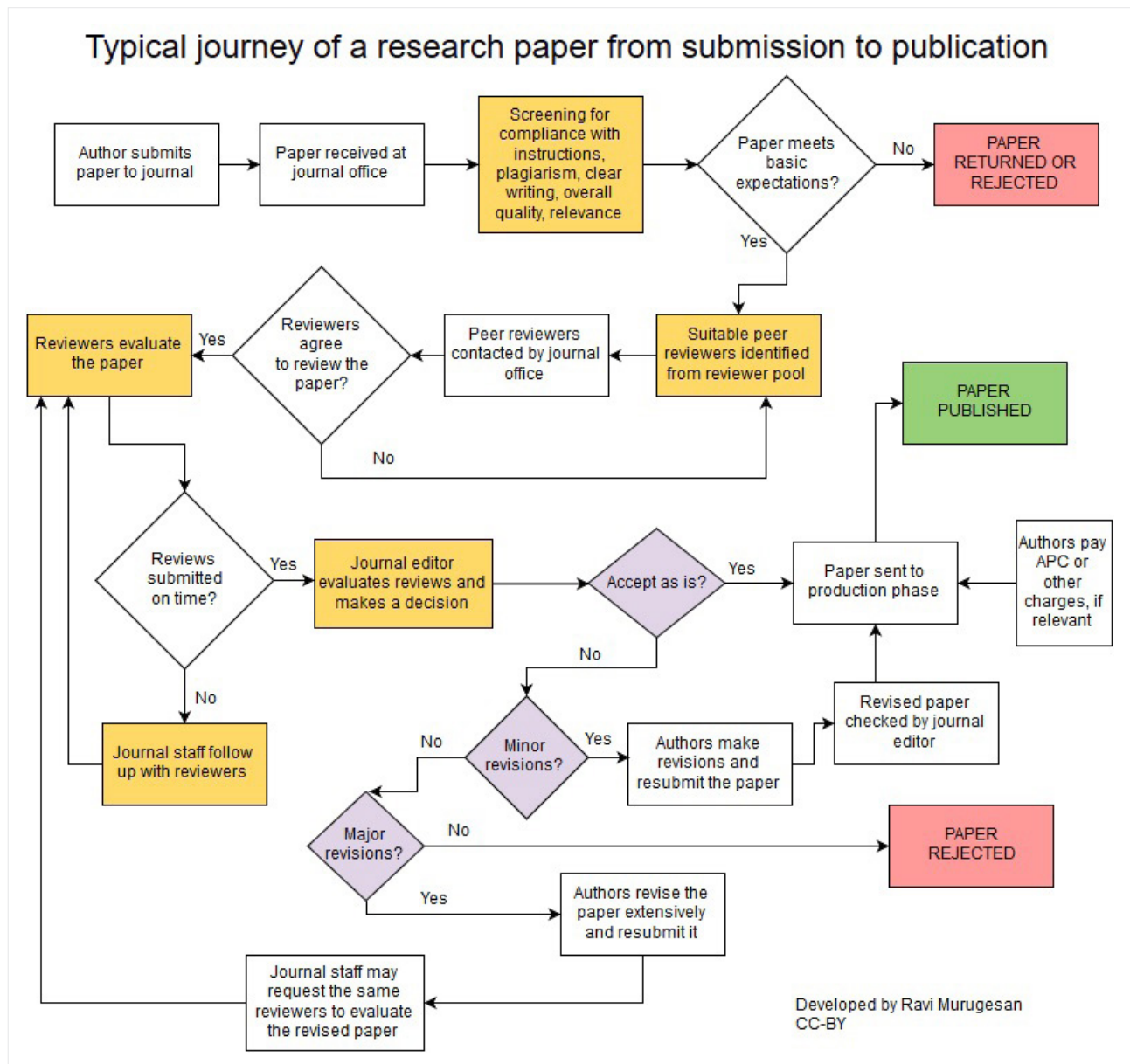
**PESTICIDE DIVERSITY FOUND IN POLLEN SAMPLES, BUT NOT PESTICIDE LOAD, VARIED BY CROP**

White bars show pesticide diversity, gray bars show pesticide load (mean  $\pm$  se). Post-hoc testing found the following groups, where letters indicate statistically significant differences: apple a, b; blueberry c; cranberry\_early d; cranberry\_late b, d, e, f; cucumber e; pumpkin c, d, f; and watermelon d.



Article Source: Crop Pollination Exposes Honey Bees to Pesticides Which Alters Their Susceptibility to the Gut Pathogen *Nosema ceranae*. Pettis JS, Lichtenberg EM, Andree M, Stitzinger J, Rose R, et al. (2013) Crop Pollination Exposes Honey Bees to Pesticides Which Alters Their Susceptibility to the Gut Pathogen *Nosema ceranae*. PLoS ONE 8(7): e70182. Licensed under CC-BY.

## D4-S2: Developing a publication strategy



# Day one - Presentation

research and knowledge at the heart of development 

## AuthorAID Research Writing Workshop


*Slides to support the activities*

08/12/17 

research and knowledge at the heart of development 


## Day 1


08/12/17 

research and knowledge at the heart of development 

## Day 1, Session 1 (D1-S1)

### Introduction


08/12/17 


research and knowledge at the heart of development 

## Intended learning outcomes

By participating fully in this workshop, you will be able to


- Describe the key ethical issues in research and publishing
- Balance different factors to select an appropriate target journal for your research paper
- Define the focus and contribution of your paper
- Write a working title and abstract for your paper
- Develop the body of your paper using an appropriate structure and flow
- Formulate a strategy to achieve publication success

08/12/17 

research and knowledge at the heart of development 

## Active learning

- We'll be using active learning approaches throughout the workshop
- What this means
  - You take responsibility for your learning
  - You decide what and how much you learn
  - Trainers facilitate learning rather than 'teach' in the traditional sense
  - Expect a lot of activities!

08/12/17 

research and knowledge at the heart of development 

## Learning agreement

**Do's**

- Being present: Showing up on time every day and staying until it's time to leave
- Sticking to the time limit during break times
- Participating actively in all the sessions
- Keeping up the pace from one session to another (sometimes we may have to move on abruptly)
- Questioning instead of tuning out when you are confused or bored
- Informing your supervisor, family and others that you are at this workshop and why it's important

**Don'ts**

- Missing any sessions unless it's an emergency
- Taking phone calls, checking Facebook, WhatsApp etc. during sessions
- Doing other things on your laptop during sessions that involve computer work

08/12/17 

## An introduction to the end-of-day reflection

At the end of each workshop day, you'll be asked to jot down...

- What you learnt today
- Questions you have
- Things that were unclear or difficult

What does success as a research author look like to you?

## D1-S2

Fixed mindset and growth mindset

Fixed vs growth mindset (derived from Dweck's work)

	Fixed mindset	Growth mindset
Challenges	Avoid	Embrace
Obstacles	Give up easily	Persist in the face of setbacks
Effort	See effort as fruitless or worse	See effort as the path to mastery
Criticism	Ignore useful negative feedback	Learn from criticism
Success of others	Feel threatened by the success of others	Find lessons and inspiration in the success of others
	<b>Deterministic view of the world</b>	<b>Greater sense of free will</b>

**Part 1:** Work with your group members to come up with at least one example or behaviour in a research authorship context for each point in (a) the fixed mindset column and (b) the growth mindset column.

**Part 2:** One person from each group to present some of the examples they thought of

## D1-S3

Research and publishing ethics

- What do you know about research and publication ethics? Concepts, terminology, etc.
- Have you witnessed or heard of any ethical violations in doing or reporting research?
- Write the concepts and examples you've come up with on sticky notes (use one big sticky note per concept/example)
- Stick your notes on the wall

## D1-S4

Defining the focus and contribution of your paper

## Pre-writing

- Writing a research manuscript is a project, not a simple task
- Useful to do some 'pre-writing' before actually starting to write your manuscript
  - To develop focus
  - Gather key points to include in the paper
  - Develop a rough outline
  - Anything else?

08/12/17



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## Pre-writing task today

- Write a short essay that clearly describes the focus of your research and the contribution of your research manuscript in advancing knowledge
- 300 to 400 words long
- Don't worry...
  - About the stage of your actual manuscript: Completed, work in progress, or hardly begun
  - If your research is not yet complete; just write about what you've done so far
- Further instructions in the participant handbook

08/12/17



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## Assessment phase

1. Come up to the front and pick a chit at random to find out who you are going to assess and who will assess you
2. Email your essay to your assessor
3. Check your inbox for (1) the essay you've been assigned to evaluate and (2) the assessment form from the facilitator
4. Use this form to evaluate the essay you've received
5. Email the completed form to your peer and the facilitator

08/12/17



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## D1-S5

Identifying appropriate target journals

08/12/17



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What are the characteristics that you would look for in a journal to decide whether it is suitable for your manuscript?

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## Typical factors to consider

- Audience
- Prestige
- Access (open access / subscription)
- Potential impact
- Publication time
- Likelihood of acceptance

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## Day 1 end-of-day reflection

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## Share your thoughts...

- What you learnt today (green sticky note)
- Questions you have (yellow sticky note)
- Things that were unclear or difficult (red sticky note)

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# Day two - Presentation

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## Day 2


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## D2-S1


### Identifying appropriate target journals

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### Do you find it exciting to read and follow manuscript guidelines given by journals?


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## Reading two sets of instructions


- Read and discuss each document in your group (10 mins per document)
  - Use green highlight for excerpts that contain interesting information
  - Use yellow highlight for excerpts that are unclear or confusing information
  - Make notes with your reasoning or comments on the excerpts you've highlighted
  - Think about the similarities and differences between the two sets of instructions
- Share your thoughts with the whole group (5 mins per group)

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### Why should you read manuscript guidelines before you start writing your paper?

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## Some reasons...

- To note guidelines concerning the doing of research (such as ethical clearance)
- To make sure that the kind of article you plan to write is suitable for the journal
- To look up any recommended style manuals
- To learn about the expected structure and length of the article
- To start writing your paper with any template provided or with the formatting expected – this will save you time later

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## D2-S2

### Structure of a typical scientific journal article

## IMRAD

- Introduction: What is the problem and why is it a problem?
- Methods: What did you do to solve the problem?
- Results: What did you find?
- Discussion: What do your findings mean?

- Identify a problem / issue / challenge related to your everyday life
- Think of how you could solve it (or have solved it) using the IMRAD approach
- Write the problem on a yellow sheet
- Document key IMRAD points on four green sheets, clearly labelled as 'Introduction', 'Methods', 'Results', 'Discussion'
- Lay them out on your table once you are done

## Day 2 end-of-day reflection

## Share your thoughts...


- What you learnt today (green sticky note)
- Questions you have (yellow sticky note)
- Things that were unclear or difficult (red sticky note)

# Day three - Presentation

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## Day 3


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## D3-S1


### Citations and references


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## Discuss in pairs (10 mins)


What functions do references serve in research writing?


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## Some functions of references


- To give credit to others for their work
- To add credibility to your work by showing that you used valid information sources
- To help show how your work is related to previous work
- To help readers find further information


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## Group activity (15 mins)


Make a checklist of things to do when including references and in-text citations in your paper

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## D3-S2

### The methods section of a research paper

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## Discuss in pairs (10 mins)

What purpose does the methods section serve in research writing?

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## Purpose of the methods section

- To allow others to replicate what you did
  - In order to test it
  - In order to do further research
- To allow others to evaluate what you did
  - To determine whether the conclusions seem valid
  - To determine whether the findings seem applicable to other situations



## Documenting directions (15 mins)

A visitor wants to know how to get to this room from the entrance of the building. Work in your group to document the path from the entrance to this room in as much detail as you prefer. Write it down on a sheet of paper.

Please be back in this room within 15 minutes with your sheet of paper ready.

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## Check a methods section for completeness

- Look at the excerpt of a methods section you have been given
- Try to identify the places that have missing, vague or incomplete information

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## D3-S3

The introduction section of a research paper

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## Discuss in pairs (10 mins)

What purpose does the introduction section serve in research writing?

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## Purposes of the introduction section

- To provide background
  - In order to help readers understand the paper
  - In order to help readers appreciate the importance of the research
- To identify the question(s) the research addressed
  - Sometimes stated as a hypothesis or hypotheses



## Activity

Order the elements of the introduction section

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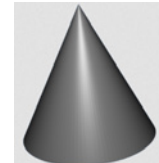
## Typical structure of the introduction

1. Information on importance of topic
2. Highlights of relevant previous research
3. Identification of unanswered question(s)
4. Approach you used to seek the answer(s)

## Shape of the introduction?



Funnel



Cone



Hourglass

Images obtained from Wikimedia Commons (<https://commons.wikimedia.org>; CC-BY-SA)

## Funnel

- Introduction typically should be funnel-shaped
- Starts with general information (background to the study) to specific information (research questions/approach)



## Annotated journal article

<http://www.authoraid.info/en/resources/details/648/>

## D3-S4

The results and discussion section(s) of a research paper

## Example of a mind map



Source: [https://en.wikipedia.org/wiki/Mind\\_map#/media/File:Tennis-mindmap.png](https://en.wikipedia.org/wiki/Mind_map#/media/File:Tennis-mindmap.png) (CC-BY-SA)

## Day 3 end-of-day reflection

## Share your thoughts...


- What you learnt today (green sticky note)
- Questions you have (yellow sticky note)
- Things that were unclear or difficult (red sticky note)

# Day four - Presentation

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## Day 4


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## D4-S1


### Figures and tables

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In which section of a research paper would you come across figures and tables?

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Activity: Critique the figures and tables put up on the wall

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“Everything should be made as simple as possible, but not simpler.”  
Commonly attributed to Albert Einstein

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## D4-S2

### Developing a publication strategy

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At a very broad level, name four to six steps to getting your research paper to the point of submission to a journal.

## Steps towards submission

- Identifying the target journal
  - Recall session on Day 1
- Writing the paper
  - Days 2 and 3
- Checking, revising, formatting the paper as per the journal's instructions
- Agreeing on the final version with co-authors
- Submitting the paper...
  - Then what?

What does 'publication success' mean to you?

## What 'publication success' means to me

- Getting a well-written, error-free manuscript published...
  - Without waiting for too long!
  - In a journal that is trusted and read by researchers / practitioners in the field
  - In a format that ensures access to the right readers (open access / subscription)
  - As an integral part of a larger research and research communication endeavour

Develop a strategy to achieve publication success, keeping in mind the scholarly publishing world as it is today.

(Now is not the time to critique problems in scholarly publishing.)

## D4-S3

Preparation for Q&A session

Come up with ONE burning question you have about research writing and publishing, building on what you have learnt in the past four days. Write down this question on your index card.

Only ONE question, please.

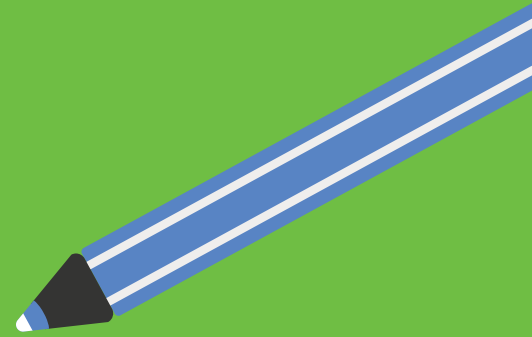
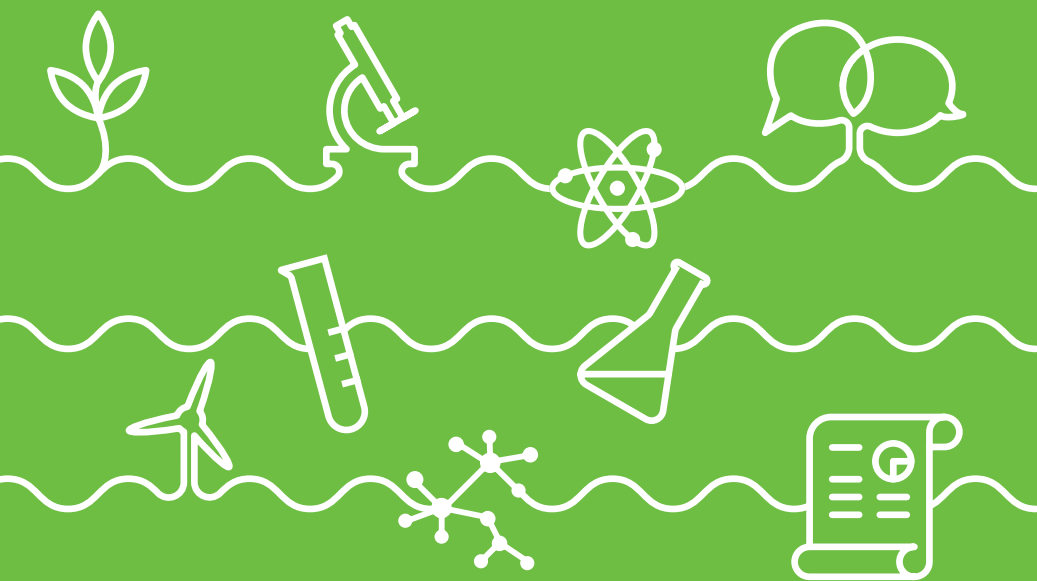
## D4-S3

Q&A session

## Guidelines

- One coordinator per table – to remain seated at the table throughout
- Other participants move from one table to another as a group, and discuss the 'burning question' for that table
- Each group to sit at a table for 5 minutes
  - 1 minute: Coordinator summarizes points that have come up so far
  - 4 minutes: Participants discuss the burning question and come up with new ideas
- Coordinators provide a summary at the end

## Thank you



AUTHORAID

*Research Writing Workshop*  
**Appendices**

# Appendices

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## *Appendix I: Research Writing Workshop – Preliminary information for participants*

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### **Introduction**

Congratulations on being selected for the \_\_\_\_\_ Research Writing Workshop!

To make the most of this workshop and receive a certificate of participation, you should...

- Be currently engaged in a scholarly research project
- Have progressed enough in your research project so as to take part in two writing activities during the workshop: (1) defining the focus and contribution of your paper, and (2) writing a working abstract of your paper
- Bring your laptop with your research data, any drafts of ongoing research writing, and the instructions to authors given by your target journals
- Be prepared to be an active learner and participate fully in the various learning sessions that make up this workshop

### **Workshop location, dates, timings**

Add details of these in this section. Mention whether lunch and snacks will be provided free of cost to the participants.

### **Workshop facilitators**

Add the names and qualifications of the facilitators.

### **Contact person**

Name and email address of the workshop administrator.

## Appendix II: Research Writing Workshop – Agenda

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### Intended learning outcomes

By participating fully in this four-day workshop, learners will be able to:

1. Describe the key ethical issues in research and publishing
2. Balance different factors to select an appropriate target journal for their work
3. Define the focus and contribution of their paper
4. Write a working abstract for their research paper
5. Develop the body of their research paper including the key elements
6. Develop a strategy to achieve publication success

### Day one

<b>D1-S1:</b> Introductions and learning agreement	(45 mins)
<b>D1-S2:</b> Establishing the right mind set to be a research author	(45 mins)
<b>20 min break</b>	
<b>D1-S3:</b> Research and publishing ethics	(60 mins)
<b>60 min lunch break</b>	
<b>D1-S4:</b> Defining the focus and contribution of your paper	(90 mins)
<b>30 min break</b>	
<b>D1-S5:</b> Identifying appropriate target journals	(60 mins)
End of day reflection	(30 mins)

### Day two

Morning review	(30 mins)
<b>D2-S1:</b> Manuscript guidelines given by journals	(60 mins)
<b>20 min break</b>	
<b>D2-S2:</b> Structure of a typical scientific journal article	(45 mins)
<b>60 min lunch break</b>	
<b>D2-S3:</b> Writing a working abstract of your paper	(120 mins)
<b>30 min break</b>	
End-of-day reflection	(30 mins)



## Day three

Morning review	(30 mins)
<b>D3-S1:</b> Citations and references	(30 mins)
<b>20 min break</b>	
<b>D3-S2:</b> The methods section of a research paper	(60 mins)
<b>60 min lunch break</b>	
<b>D3-S3:</b> The introduction section of a research paper	(60 mins)
<b>30 min break</b>	
<b>D3-S4:</b> The results and discussion section of a research paper	(60 mins)
End-of-day reflection	(30 mins)

## Day four

Morning review	(30 mins)
<b>D4-S1:</b> Figures and tables	(45 mins)
<b>20 min break</b>	
<b>D4-S2:</b> Developing a publication strategy	(90 mins)
<b>60 min lunch break</b>	
<b>D4-S3:</b> Q&A session	(45 mins)
Closing the workshop	(30 to 60 mins)

## Appendix III: Research Writing Workshop – Standard agenda

### Intended learning outcomes

By participating fully in this four-day workshop, participants will be able to:

7. Describe the key ethical issues in research and publishing
8. Balance different factors to select an appropriate target journal for their work
9. Define the focus and contribution of their paper
10. Write a working abstract for their research paper
11. Develop the body of their research paper including the key elements
12. Develop a strategy to achieve publication success

### Day one

Day 1	Length	Session heading	Session content	Session summary
D1-S1	50 mins	Introductions and learning agreement	<ul style="list-style-type: none"> <li>• Welcome and introductions</li> <li>• Introduction to workshop, learning outcomes, participant handbook, and active learning</li> <li>• Learning agreement</li> <li>• Introduction to end-of-day reflection</li> <li>• Think-pair-share activity</li> </ul>	This session is for the participants to get to know one another, become familiar with the workshop format and resources, and reflect on what success as a research author means to each of us.
D1-S2	45 mins	Establishing the right mind set to be a research author	<ul style="list-style-type: none"> <li>• Introducing the graphic on fixed vs growth mindset</li> <li>• Coming up with examples for each point in the graphic</li> <li>• Reporting</li> </ul>	What is the difference between a fixed mindset and growth mindset, and why is the latter important to be a successful research author?
Break				
D1-S3	60 mins	Research and publishing ethics	<ul style="list-style-type: none"> <li>• Sharing examples of ethical violations in doing or reporting research</li> <li>• Categorization of examples</li> <li>• Plenary discussion</li> </ul>	The goal of this session is to instil in participants an understanding of the major ethical problems in research that concern researchers and publishers.
Lunch				
D1-S4	90 mins	Defining the focus and contribution of your paper	<ul style="list-style-type: none"> <li>• Writing phase</li> <li>• Peer assessment phase</li> <li>• Sharing and reading evaluations</li> </ul>	Participants are given the opportunity to do some pre-writing, i.e. a preparatory kind of writing which is often useful to embark on a writing project.
Break				
D1-S5	60 mins	Identifying appropriate target journals	<ul style="list-style-type: none"> <li>• Factors to consider when choosing a target journal</li> <li>• Ranking the factors and explaining the rationale behind the ranking</li> </ul>	When should a target journal for one's work be identified, what are the factors to consider, and how should the factors be balanced?
	30 mins	Reflection and review	Exit cards and/or group reflection	

## Day two

Day 2	Length	Session heading	Session content	Session summary
	30 mins	Morning review	Review of exit cards from day one, overview of day two	
D2-S1	60 mins	Manuscript guidelines given by journals	<ul style="list-style-type: none"> <li>• Going over manuscript guidelines given by two reputable journals</li> <li>• Identifying similarities, differences and unclear parts</li> </ul>	The point of this session is to raise awareness of the importance of manuscript guidelines and why reading and following them is essential even if it's a tedious task.
Break				
D2-S2	45 mins	Structure of a typical scientific journal article	<ul style="list-style-type: none"> <li>• Acronym that denotes a typical article structure</li> <li>• Solving an everyday problem based on this structure</li> </ul>	Do scientific journals articles have a typical format and what is it? How can knowing this format help with the actual writing?
Lunch				
D2-S3	120 mins	Writing a working abstract of your paper	<ul style="list-style-type: none"> <li>• Going over the annotated version of an abstract published in a leading journal</li> <li>• Writing phase</li> <li>• Peer assessment phase</li> <li>• Sharing and reading evaluations</li> </ul>	This is the second of the major writing activities in the workshop and should give participants hands-on experience with research writing along with the opportunity to get some immediate feedback.
Break				
	30 mins	Reflection and review	Exit cards and/or group reflection	

## Day three

Day 3	Length	Session heading	Session content	Session summary
	30 mins	Morning review	Review of exit cards from day two, overview of day three	
D3-S1	30 mins	Citations and references	<ul style="list-style-type: none"> <li>• Functions of references</li> <li>• Making a checklist for in-text citations and references</li> </ul>	Citations and references may seem like a boring topic, but accurate referencing is indispensable in research writing. In this session, the pre-existing knowledge of participants regarding citations and references will be brought to the fore and structured.
Break				
D3-S2	60 mins	The methods section of a research paper	<ul style="list-style-type: none"> <li>• Purpose of the methods section</li> <li>• Critically analyzing a discovery by focusing on the methods behind it</li> <li>• Identifying missing information in the methods section of a paper</li> </ul>	From this point in the workshop, the typical sections in the body of a research paper will be considered one by one. We start with the methods section because this is considered one of the most straightforward sections to write, in that it is a report of what was done in the research.

Day 3	Length	Session heading	Session content	Session summary
Lunch				
D3-S3	60 mins	The introduction section of a research paper	<ul style="list-style-type: none"> <li>• Purpose of the introduction section</li> <li>• Typical structure of the introduction</li> <li>• Reviewing a published introduction section and identifying parts of it that map to the typical structure</li> </ul>	The main activity in this session involves reviewing a published paper to check the structure of the introduction.
Break				
D3-S4	60 mins	The results and discussion section of a research paper	<ul style="list-style-type: none"> <li>• Example of a mind map</li> <li>• Creating mind maps for the results and discussion section</li> <li>• Presenting and discussing the mind maps</li> </ul>	Participants create a mind map about the results and discussion section.
	30 mins	Reflection and review	Exit cards and/or group reflection	

## Day four

Day 4	Length	Session heading	Session content	Session summary
	30 mins	Morning review	Review of exit cards from day three, overview of day four	
D4-S1	45 mins	Figures and tables	<ul style="list-style-type: none"> <li>• Reviewing a selection of figures and tables from published papers</li> <li>• Identifying and reporting on problems in these figures and tables</li> </ul>	Even published papers occasionally contain figures and tables that are unclear or confusing. In this session we'll look at a few such figures and tables, and discuss how the problems can be fixed.
Break				
D4-S2	90 mins	Developing a publication strategy	<ul style="list-style-type: none"> <li>• Getting a paper ready for submission</li> <li>• Flowchart of activities from submission to publication</li> <li>• Meaning of 'publication success'</li> <li>• Developing a strategy to achieve publication success</li> </ul>	This is one of the longer workshop sessions and the point of the session is to get participants to think beyond just writing a paper and look at research communication strategically.
Lunch				
D4-S3	45 mins	Q&A session	<ul style="list-style-type: none"> <li>• Making a list of burning questions</li> <li>• Discussing the questions in small groups</li> <li>• Summarizing and documenting answers</li> </ul>	This is a wrap-up session for the workshop. Participants get to discuss burning questions and come up with answers.
Break				
	30 mins	Workshop closure	Certificates, feedback, closing remarks	



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