A Research Poster

A large sheet on which

the presenter displays (the results of) their research

in a clear, concise and visually appealing manner



Origin of scientific posters

- The first posters appeared in the late 1960's
- "Prepared cards" with pictures, graphs, diagrams and tables
- "Poster session" was introduced in the 1970's
- Nowadays, almost all conferences in different disciplines have poster sessions



Root reasons to make a poster

Communicate my research findings

2

Promote networking

3

Facilitate meaningful discussion among conference attendees



Future co-operation?







Terhi Virkki-Hatakka 8.4.2025

Basic questions

- 1. What is my **key message**?
- 2. What kind of **reactions** I want to evoke?
- 3. What kind of audience do I have?
- 4. What kind of **co-operation opportunities** you are looking for?



- What could be the most effective way to tell my key message to the target audience?
 - 1. Will the people notice my poster?
 - 2. Do they become curious and interested?
 - 3. Do they come and discuss?
 - 4. Can we do something together in the future?

Framework issues to consider



- Size of the poster wall, required format, or other limitations?
- Printing (if needed) and transport to destination
 - Costs?
 - Does the poster fit in a suitcase, poster tube, etc.

- Size and shape of the poster
 - > Poster walls are often for A0 or A1 size posters
 - Rectangular/ square / other shapes
- What software can be used?
 - PowerPoint / Adobe Illustrator / Photoshop / InDesign / Open source alternatives...
- Sheet material
 - Paper / Fabric / Something else

Once the basic message, target audience and constraints are clear, how to make the best possible poster within them?

Remember

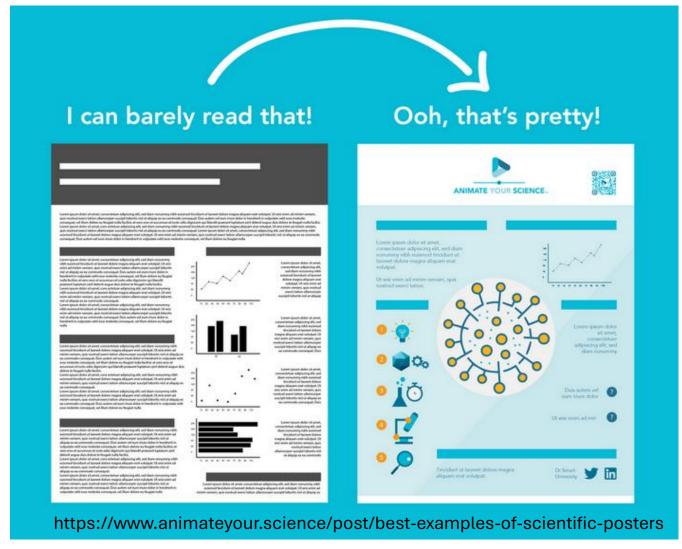
- Layout
- Content
- Readability
- Special effects
- Getting feedback



1. Introduction

What makes people come to your poster?

- Something that looks interesting
- 2. Title in the list of posters
- 3. Poster pitch (if there's any)



2. Content

Poster ≠ scientific article

- No abstract needed
- No long chapters
- Focus on the main findings
- You may add QR code that leads to supplementary information
- Key message
- Figure(s)
- Contact information



3. Readability

3.1 **FONT STYLE**

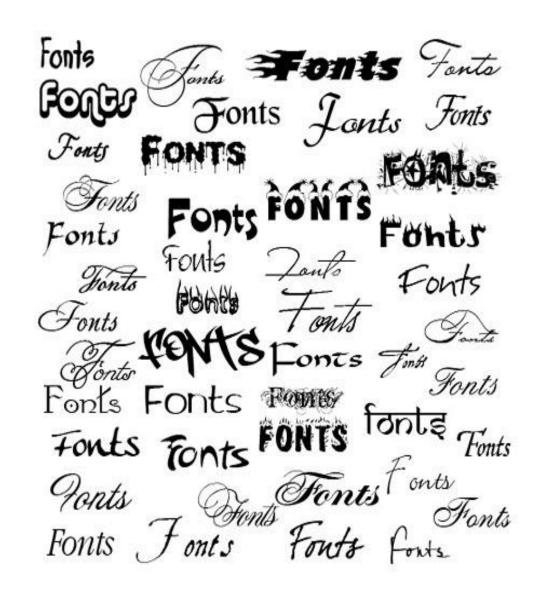
- Use easy-to-read font
- Do not use too many different fonts

3.2 **FONT SIZE**

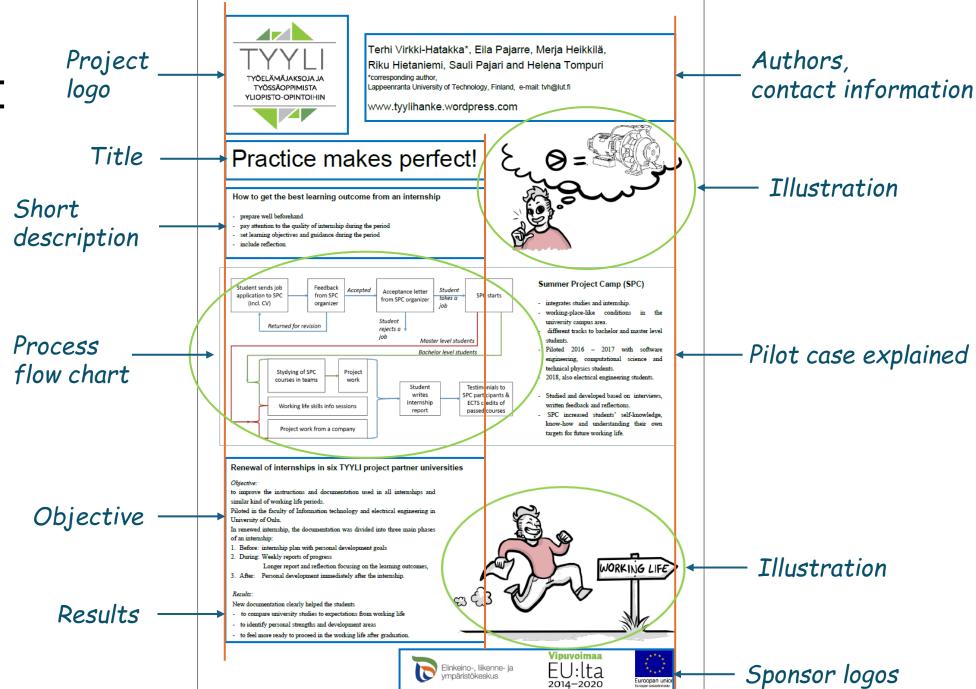
- Use big enough font
- Do not use too many different font sizes

3.3 COLOURS

- Use easy-to-read colours
- Also colour blind people should be able to see and read your poster!



4. Layout



Examples of different layouts and colour use



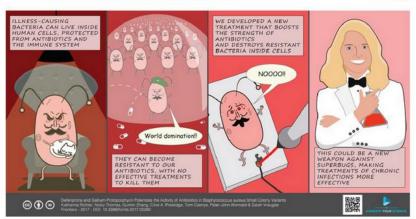
A topical gel for biofilm-associated respiratory tract infections- translation from bench to bedside



Katharina Richter^{1,2}, Nicky Thomas², Tom Coenye³, Sarah Vreugde¹

1 University of Adelaide, Basil Hetzel Institute for Translational Health Research, The Queen Elizabeth Hospital, Adelaide, Australia 2 Adelaide Biofilm Test Facility, Sansom Institute for Health Research, University of South Australia, Adelaide, Australia 3 Laboratory of Pharmaceutical Microbiology, Ghent University, Gent, Belgium





Results

Background

S. aureus forms biofilms and small colony variants (SCVs), which hide inside human cells, thereby surviving the immune attack and antibiotics1. Best medical care (long-term antibiotics, surgery) is ineffective resulting in recurring infections, significant healthcare costs and low quality-of-life2.

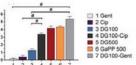
Aim & Methods

Preclinical validation of a novel treatment comprising the iron-chelator deferiprone (Def) and the haem-analogue gallium-protoporphyrin (GaPP) against antibiotic-resistant S. aureus biofilms and SCVs3.

Fig. 1: Intracellular SCVs (green) in a human cell (red-blue). Infection assay: Def-GaPP-Gentamicin eradicated intracellular (a) and extracellular (b) SCVs. C: untreated control. Treatment 1: gentamicin (Gent), 2: Def-GaPP, 3: Def-GaPP-Gent.

Fig. 3: Colony biofilm model: Def-GaPP potentiated the antibiofilm activity of Gentamicin and Ciprofloxacin against resistant

adelaide.edu.au



Def-GaPP showed significant activity against S. aureus biofilms and intracellular SCVs, and potentiated the potency of Cip and Gent against resistant strains3. Delivered in a wound healing gel, Def-GaPP progressed to a first-in-human pilot study for the treatment of chronic rhinosinusitis at The Queen Elizabeth Hospital in Adelaide, Australia.

Conclusion

Fig. 2: C. elegans infection model: Def-GaPP significantly increased the survival of

worms infected with SCVs. Uninfected controls (light grey). Worms infected with SCVs

(black) and treated with Def (dark grey), GaPP (orange) or Def-GaPP (red). GaPP and Def-GaPP significantly reduced the bacterial load per worm.

References

1 Garcia LG, et al. J Antimicrob Chemother 2013;68(7):1455-64.

2 Chronic respiratory diseases in Australia. Australian Institute of Health and Welfare, 2015.
3 Richter K, et al. Front Cell Infect Microbiol 2017;7(280).

Acknowledgements

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KR and SV hold a patent on Def-GaPP for topical antimicrobial applications

GHENT UNIVERSITY



Title offset 2/3 to the right obeys the rule of thirds! Logo

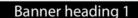
Authors and affiliations

Logo

QR code Logo

Graphical abstract

the bigger the better!



Banner heading 2

Text

Text

Text

Banner heading 3

Figures and legends

Banner heading 4

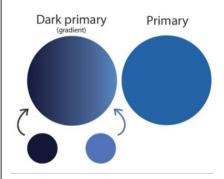
Text

Text

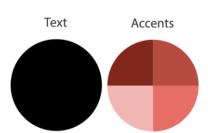
Banner heading 5 Banner heading 6

Other logos

Colour palette





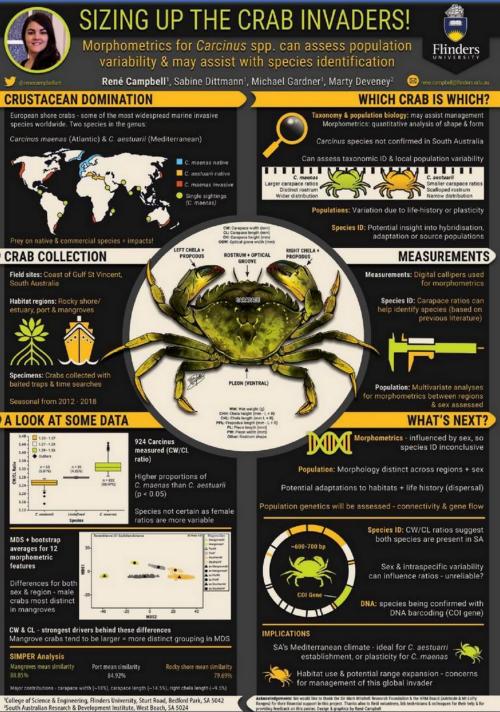


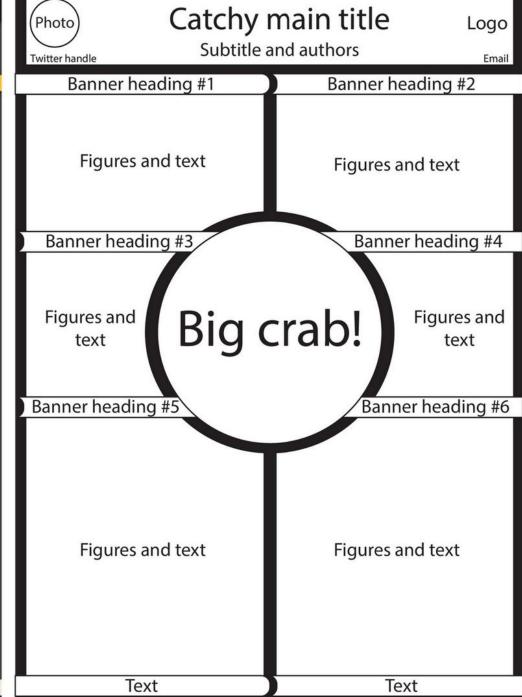








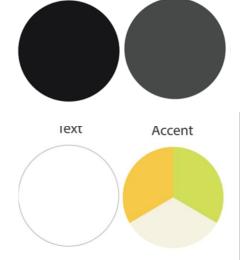




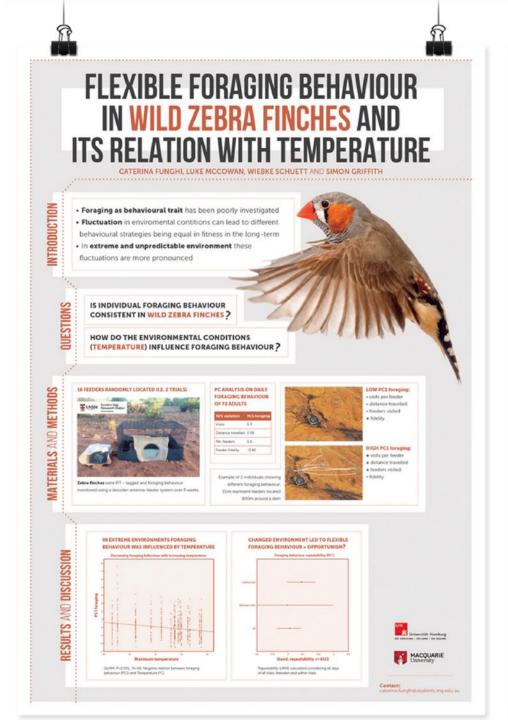
Colour palette

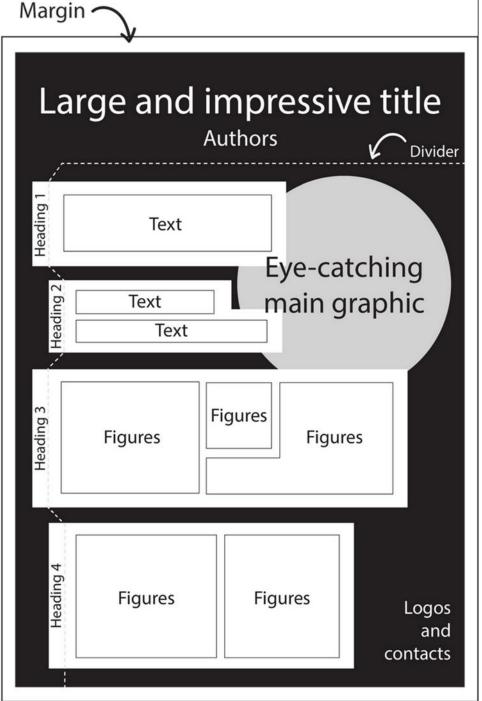
Primary

Dark primary

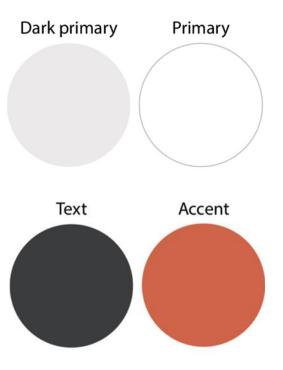


https://www.animateyour.scien ce/post/best-examples-ofscientific-posters





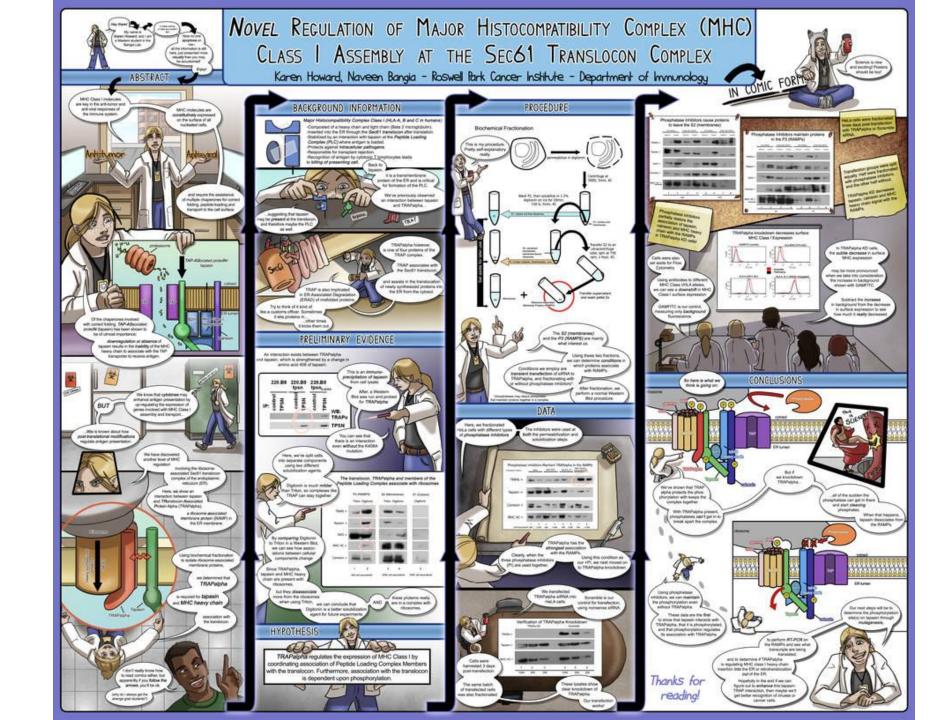
Colour palette



https://www.animateyour.sc ience/post/best-examplesof-scientific-posters Something attention grabbing:

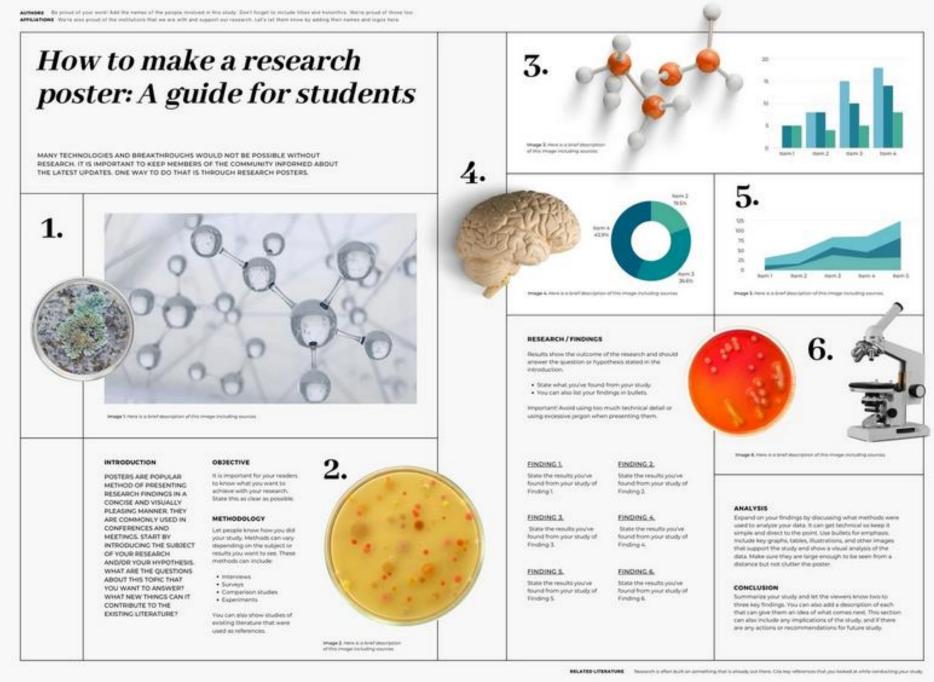
Poster in comic form

https://www.deviantart.co m/kezhound/art/Comickly -Scientific-Poster-169670945



Readymade templates

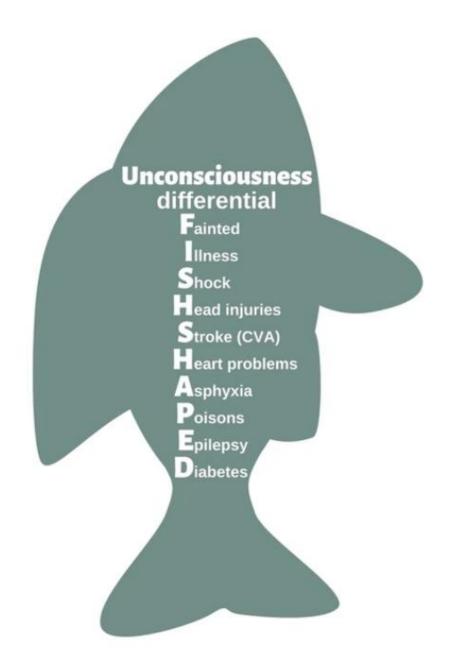
- A lot of different ones can be found
- Consider if they are suitable for you or not
- Think about your key message first!



5. Effects that highlight your message

- Shape of your poster
- 3 dimensional objects





5.1. Shape of the poster

- The usual way
 - Rectangular
 - => A0, A1, square or something else
 - => landscape or portrait?

- Shape your message
 - Other than rectangular=> partly or as a whole
 - Shape itself is an essential message

5.2. Three-dimensional objects included

Something to touch and feel



Describing 3D shapes



https://cosmoaims.wordpress.com/2011/12/07/radical-research-vi-thinking-outside-the-box-with-a-3d-poster/

6. Presenting and Feedback

- Discussions
 - Do not only explain your research, ask others what they are doing
- Peers
- New contacts
- Co-operation



Road map to an outstanding academic poster

1. Before starting

- What is my **key message**?
- What kind of audience do I have?
- What kind of **co-operation** I'm looking for?
- What kind of limitations exist?

2. While making a poster, consider

- Size and shape
- Software use
- Material
- Content
- Layout
- Readability
- Special effects, e.g. 3D objects
- Feedback



LUT DS conference framework for posters

- Conference organizer will print the posters
- Send your poster between 22 April and 4 May via the Eventos system
- Instructions will be sent to students by 22 April at the latest
- Canvas size max A1
- pdf format
- File size max 10MB
- Posters printed by LUT will be in poster stands when the event starts
- Students can also print it out (etc.) and bring their poster with them to the event.