Poster Formatting for Conferences

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TAMIU ARC

ADVANCING RESEARCH & CURICULIM

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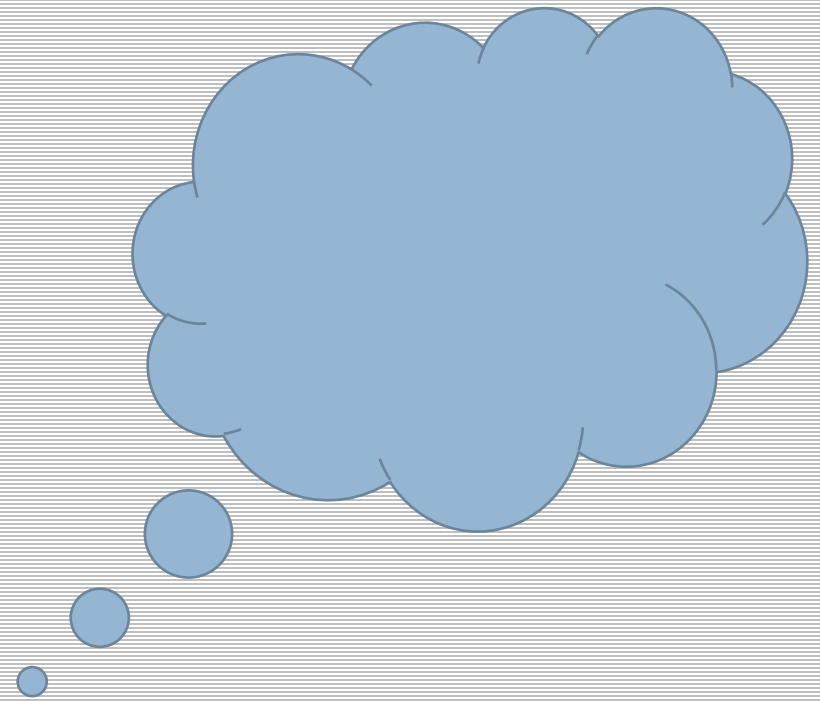
This Presentation will cover:

- Poster Presentation Guidelines
- Poster Templates
- Poster Development
- Poster Content: Do’s and Don'ts
- Poster Session Suggestions
- Poster Printing Services



Poster Presentation Guidelines

Specifications of Poster Presentations

- Recommended poster sizes is 3ft by 6.5ft (36 inches by 78 inches)
- Poster board number assigned to the poster must be placed on upper left-hand corner.
- Include abstract title, author and coauthor names, and the institution(s). Place e-mail address on the upper right-hand.
- Refer to conference guidelines for formatting. (usually APA)

Tips for Poster Preparation

- Posters should stimulate discussion (Keep text to a minimum!)
- Goal: 20% text, 40% graphics, 40% space.
- Ideas flow logically
- Use charts and graphics (avoid large data tables)
- Use high resolution photographs

ATE UNIVERSITY

Southern Flounder Exhibit Temperature-Dependent Sex Determination

J. Adam Luckenbach*, John Godwin and Russell Borski
Department of Zoology, Box 7617, North Carolina State University, Raleigh, NC 27695

Introduction

Southern flounder (*Paralichthys lethostigma*) support valuable fisheries and show great promise for aquaculture. Female flounder are known to grow faster and reach larger adult sizes than males. Therefore, information on sex determination that might increase the ratio of female flounder is important for aquaculture.

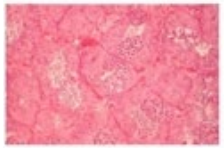
Objective

This study was conducted to determine whether southern flounder exhibit temperature-dependent sex determination (TSD), and if growth is affected by rearing temperature.

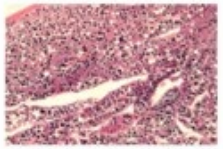
Methods

- Southern flounder broodstock were strip spawned to collect eggs and sperm for *in vitro* fertilization.
- Hatched larvae were weaned from a natural diet (rotifers/*Artemia*) to high protein pelleted feed and fed until satiation at least twice daily.
- Upon reaching a mean total length of 40 mm, the juvenile flounder were stocked at equal densities into one of three temperatures 18, 23, or 28°C for 245 days.
- Gonads were preserved and later sectioned at 2-6 microns.
- Sex-distinguishing markers were used to distinguish males (spermatogenesis) from females (oogenesis).

Histological Analysis

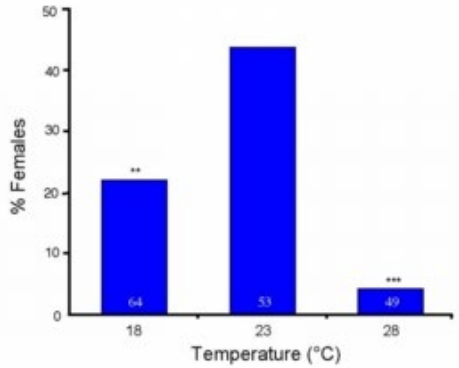


Male Differentiation



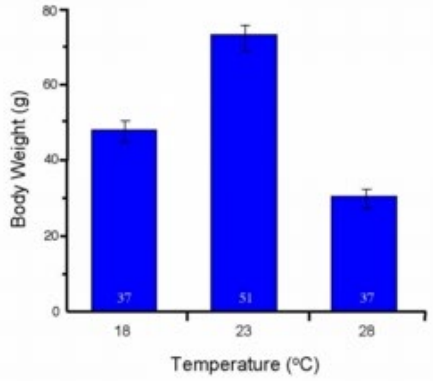
Female Differentiation

Temperature Affects Sex Determination

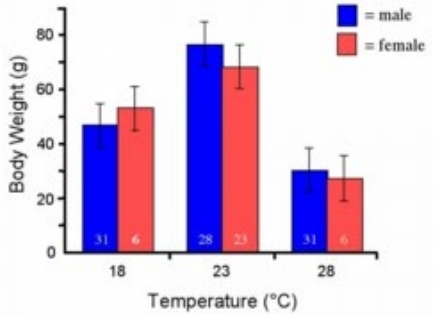


(**P < 0.01 and ***P < 0.001 represent significant deviations from a 1:1 male:female sex ratio)

Rearing Temperature Affects Growth



Growth Does Not Differ by Sex



Results

- Sex was discernible in most fish greater than 120 mm long.
- High (28°C) temperature produced 4% females.
- Low (18°C) temperature produced 22% females.
- Mid-range (23°C) temperature produced 44% females.
- Fish raised at high or low temperatures showed reduced growth compared to those at the mid-range temperature.
- Up to 245 days, no differences in growth existed between sexes.

Conclusions

- These findings indicate that sex determination in southern flounder is temperature-sensitive and temperature has a profound effect on growth.
- A mid-range rearing temperature (23°C) appears to maximize the number of females and promote better growth in young southern flounder.
- Although adult females are known to grow larger than males, no difference in growth between sexes occurred in age-0 (< 1 year) southern flounder.

Acknowledgements

The authors acknowledge the Salstonstall-Kennedy Program of the National Marine Fisheries Service and the University of North Carolina Sea Grant College Program for funding this research. Special thanks to Lea Ware and Beth Shimps for help with the work.

Poster Sample

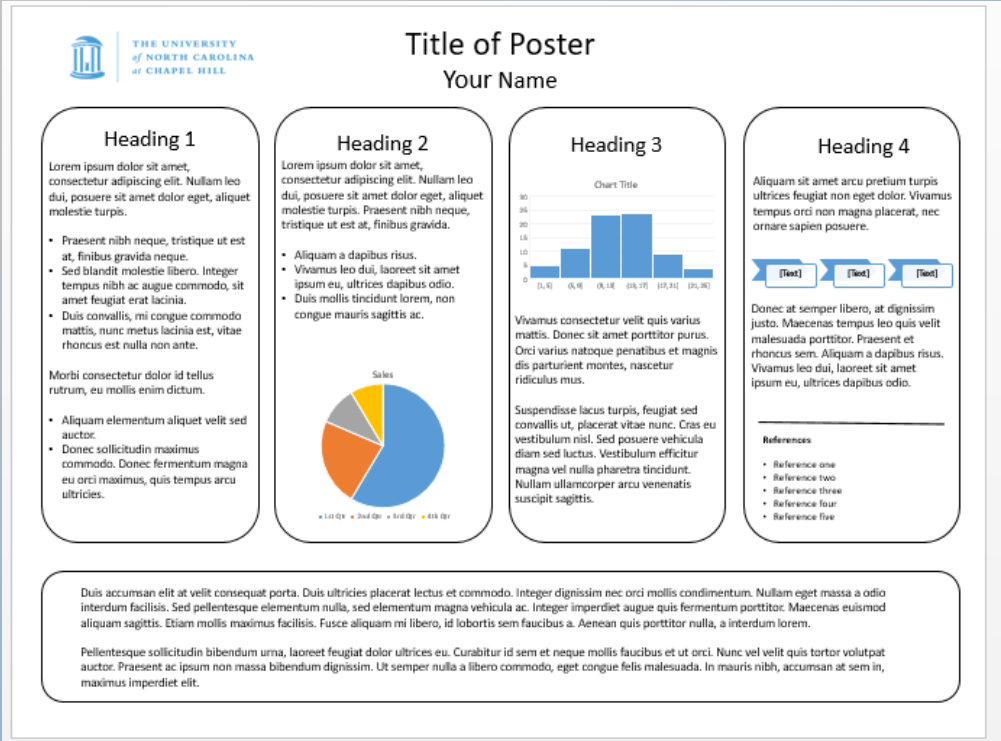
Negative Points

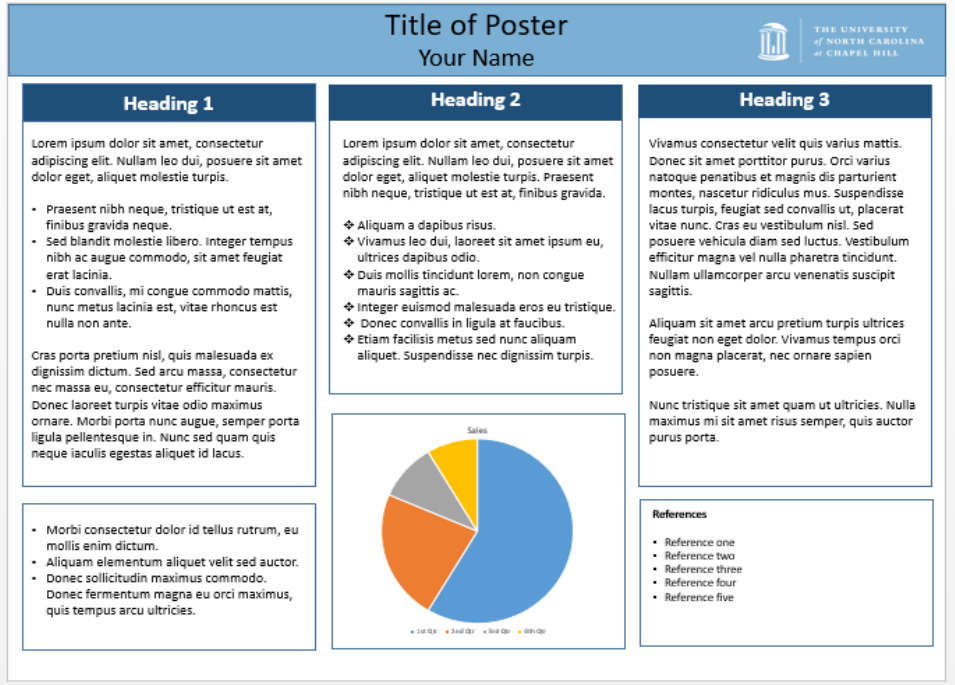
- Results and conclusions do not relate back to context (Introduction).
- Title could be more direct: "Water Temperature Determines Sex of Southern Flounder"
- Title font is small- could be larger.
- Too much white space between the columns.

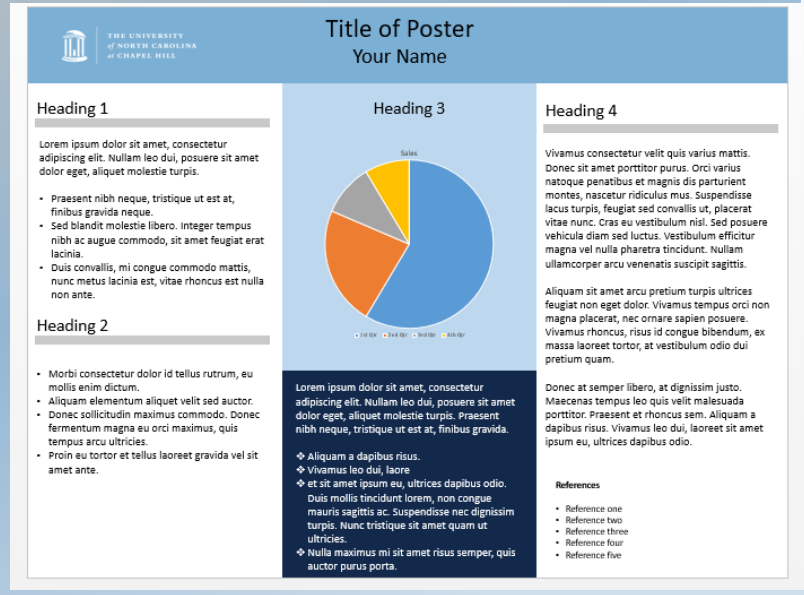
Poster templates

Poster templates are readily available online!

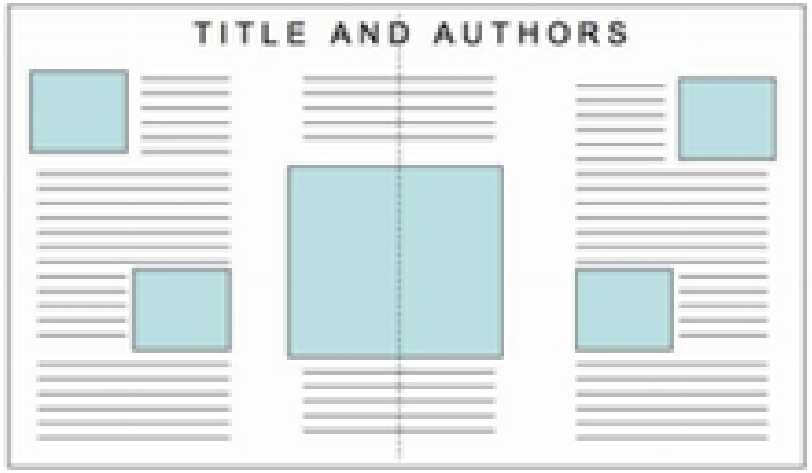
- http://gradschool.unc.edu/academics/resources/postertips.html
- http://www.posterpresentations.com/html/free_poster_templates.html



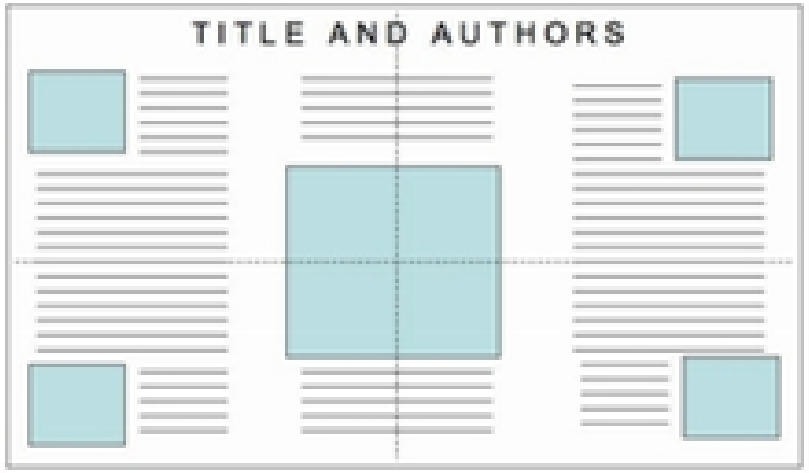




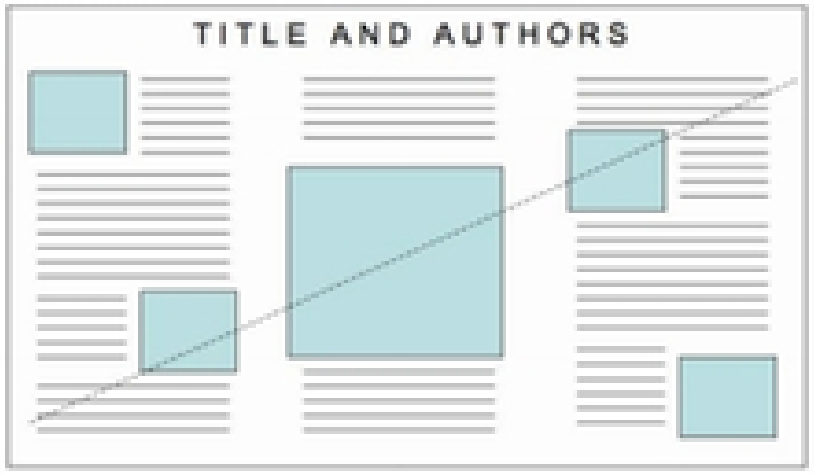
Your poster should have a good visual balance of figures and text, separated by white space. Ba
images and text are reflected (at least approximately) across a central horizontal, vertical, or diag
know as the axis of symmetry.



Horizontal Symmetry



Horizontal & Vertical Symmetry



Diagonal Symmetry

Asymmetry
(text-heavy on left, image-heavy on right)

Size & Display

- Posters no larger than 4 feet high x 4 feet wide.
  - Printed posters 36 inches high x 48 inches wide.
- **Always consult guidelines provided by attending conference!**
- **<u>**Format is subject to change!**</u>**

Poster Development

- Follows rigid format: Runs 3 or 4 columns, read top to bottom, left to right.
- Includes: abbreviated abstract, intro section, methods section, results section, and discussion.
- Only display essential data!

For extra resources click below:

http://colinpurrington.com/tips/academic/posterdesign
http://guides.library.cornell.edu/poster

***Remember **PAD**- Purpose, Audience, and Design*

Poster Content: Do's and Don'ts

Do's

- Maintain white space
- Use lists of sentences
- Keep color combinations simple
- Give graphs titles (in sentence case)
- Graphs and photographs can be seen 6ft away
- Cite literature contents carefully
- Use only single spacing

Don'ts

- Make poster too wordy
- Avoid titles with colons
- Do not add bullets to section headings
- Avoid dark background colors
- Do not clutter with logos
- Do not vary width of text boxes
- Do not use underlining (italics only)

Poster Presentation Suggestions

- Set up and be ready by your poster 30mins before assigned time block
- All authors must be present during poster session
- Engage your audience
- Do not be afraid if you don’t know the answer
- Prepare an “elevator” pitch
- Prepare handout/QR code
- Practice, practice, practice

RESEARCH SUPPORT

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POSTER PRINTING FOR CONFERENCES

THE TAMIU ARC PROGRAM PROVIDES FREE PRINTING OF POSTERS TO TAMIU STUDENTS.

Students wanting to take advantage of this service must fill out the online form below. They must also have a faculty sponsor and a minimum of one week is required to guarantee fulfillment of service. Find out more about the **file requirements** and other logistics here.

Request Form

Poster Printing Services

**Free poster printing services provided by ARC!

https://www.tamiu.edu/cees/arc/pages/research.support.shtml

Thank You!

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