Preparing Effective Oral & Poster Presentations
12 WAYS TO
Investing
Presenting your work
Audience
Purpose
Format
Que ens permet la tecnologia?

- Tecnologia
- Internet
- Navegació
- Xarxes socials
- Treball col·laboratiu
A D I O C T I O N P O T E N T I A L O F S E L E C T E D D R O U T H T O L E R A N T

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Abstract

The third most important food crop in Africa is sorghum. It is grown on about 30 million ha in the sub-Saharan Africa, particularly in drought prone areas. Sorghum production is important for food security, especially in semi-arid and arid regions of the world. In this study, we investigated the potential of selected drought tolerant sorghum lines for adoption in the USER聂 District of Uganda. The study was conducted in the smallholder farms of the District. The results showed that the selected sorghum lines were tolerant to drought and had higher yields compared to the local variety. The farmers also expressed interest in adopting the selected lines due to their high yields and drought tolerance. The study concluded that the selected sorghum lines have potential for adoption in the USER聂 District of Uganda. The findings of this study can be used to inform future research and development efforts for improved sorghum varieties.
Heat stress response in the closest algal relatives of land plants reveals conserved stress signaling circuits

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This work is not used for commercial purposes.

SUMMARY

All land plants (embryophytes) share a common ancestor that likely evolved from a filamentous freshwater alga. Elucidating the transition from algae to embryophytes — and the eventual conquering of Earth’s surface — is one of the most fundamental questions in plant evolutionary biology. Here, we investigated one of the organismal properties that might have enabled this transition: resistance to drastic temperature shifts. We explored the effect of heat stress in Mougeotia and Spirogyra, two representatives of Zygematophyceae — the closest known algal sister lineage to land plants. Heat stress induced pronounced phenotypic alterations in their plastids, and high-performance liquid chromatography-tandem mass spectrometry-based profiling of 565 transitions for the analysis of main central metabolites revealed significant shifts in 43 compounds. We also analyzed the global differential gene expression responses triggered by heat, generating 92.8 Gbp of sequence data and assembling a combined set of 8905 well-expressed genes. Each organism had its own distinct gene expression profile; less than one-half of their shared genes showed concordant gene expression trends. We nevertheless detected common signature responses to heat such as elevated transcript levels for molecular chaperones, thylakoid components, and corroborating our metabolomic data — amino acid metabolism. We also uncovered the heat-stress responsiveness of genes for phosphorelay-based signal transduction that links environmental cues, calcium signatures and plastid biology. Our data allow us to infer the molecular heat stress response that the earliest land plants might have used when facing the rapidly shifting temperature conditions of the terrestrial habitat.

Keywords: early plant evolution, stress physiology, streptophyte algae, plant terrestrialization, signal transduction, charophytes, heat stress, RNA-seq, metabolomics.
ONE SIZE DOES NOT FIT ALL
DESIGN
Contrast

R

A

P
Contrast
Contrast

Repetition

A

P
CONTRAST
REPETITION
A
P
CONTRAST

REPETITION

ALIGNMENT
CONTRAST

REPETITION

ALIGNMENT

P
CONTRAST

ALIGNMENT

REPetITION
CONTRAST
REPETITION
ALIGNMENT
carrots  apples
milk      napkins
lettuce   eggs
bananas   paper
vegetables cucumber
meat      hamburger
chicken   fruit
tomatoes  cheese
grapefruit paper towels
dairy     potatoes
peppers
**Vegetables**
carrots
lettuce
tomatoes
peppers
cucumber
potatoes

**Fruit**
bananas
grapefruit
apples

**Meat**
chicken
hamburger

**Dairy**
milk
eggs
cheese

**Paper**
napkins
paper towels
CONTRAST
REPETITION
ALIGNMENT
PROXIMITY
Oral presentation elements:
First slide

• Title
• Your name
• Your mentor
• Affiliation
Salt Ion Removal from a Brine Solution

Germiamah Junkere, Chad Siemeon

Dr. Salim Azzouz

McCoy School of Engineering
CONTRAST
Salt Ion Removal from a Brine Solution

Germiamah Junkere, Chad Siemeon

Dr. Salim Azzouz

McCoy School of Engineering
REPETITION
Salt Ion Removal from a Brine Solution

Germiamah Junkere, Chad Siemeon
Dr. Salim Azzouz
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ALIGNMENT
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Dr. Salim Azzouz
McCoy School of Engineering
PROXIMITY
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McCoy School of Engineering
Salt Ion Removal from a Brine Solution
Germiamah Junkere
Chad Siemeon

Dr. Salim Azzouz
McCoy School of Engineering
<table>
<thead>
<tr>
<th>Sans-serif</th>
<th>Serif</th>
</tr>
</thead>
<tbody>
<tr>
<td>T</td>
<td>T</td>
</tr>
</tbody>
</table>
Sans-serif tends to be easier to read on a screen

Serif tends to be harder to read on a screen
COLORS
CONTRAST
THIS IS EASY TO READ
THIS IS EASY TO READ
THIS IS NOT EASY TO READ
THIS IS NOT EASY TO READ
Oral Presentations

Microsoft PowerPoint
PowerPoint is a VISUAL aid, not a TEXTUAL aid.
You will get 6X better recall if you use visuals to support what you say
You will get 6X better recall if you use visuals to support what you say.

Source: http://www.brainrules.net/vision
Recognition doubles when pictures are used instead of text

Source: http://www.brainrules.net/vision
GRAPHS
You will get 6X better recall if you use visuals to support what you say.
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OTHER POWERPOINT TIPS
Design for the person in the back of the room
✓ Pick a simple theme
✓ Keep your slides simple
✓ Apply design principles (CRAP)
✓ Use visuals that support your message
✓ Save often
Questions to ask yourself

• What are the key points I want the audience to know?
• Have I communicated them as simply as possible, but not simpler?
• Do I have one message per slide?
• Have I used visuals to support my message?
• Have I applied design principles effectively?
• Does every image or word help convey my message?
Oral presentation delivery tips: Audience

• Why should they care?
• Grab their attention at beginning—connect with them
• Make eye contact
• Talk, don’t read
• Dress with respect for them
• Be enthusiastic
• Practice, practice, practice, especially attention material and concluding remarks
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<table>
<thead>
<tr>
<th>A good poster</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good science, case study, theory</td>
</tr>
<tr>
<td>Uncluttered</td>
</tr>
<tr>
<td>Organized</td>
</tr>
<tr>
<td>Well designed/visually appealing</td>
</tr>
<tr>
<td>Legible</td>
</tr>
<tr>
<td>Easy to read</td>
</tr>
<tr>
<td>Brevity of text</td>
</tr>
<tr>
<td>Straightforward</td>
</tr>
</tbody>
</table>
What is a poster?

- A **visual** communication tool
- An effective poster will help you ...

... engage colleagues in conversation.
An effective poster will help you ...

... get your main point across to as many people as possible.
An effective poster …

- is easily read from 1-2 meters away

Use BIG Text

Keep Posters Visual!!

George R. Hess
Department of Forestry &
Environmental Resources
North Carolina State University
Raleigh, North Carolina 27695-8002 USA
Know your audience

- Specialists only
- Wide-ranging discipline
- Very general audience
A good poster shows good composition and is:

- Well designed
- Uncluttered
- Legible
- Straightforward
- Easy to read
- Visuals tell the story you want to convey that incorporates appropriate, brief text
Headings identify key sections

Balance placement of text & graphics

Use white space creatively

Don’t fight “reader gravity”

Use a column format
- Keep text elements short
- Use phrases and active voice
- Use serif font for text
- San-serif font OK for title & headings
DESIGN
Typical poster elements

- Title
- Your name
- Your mentor
- Affiliation
Typical poster elements

• Abstract
• Introduction
• Materials & methods
• Results
• Discussion
• Conclusions
• Further studies
• Literature cited or references
• Acknowledgements
Undergraduate Research and Creative Activity forum
Presentation Categories

- Oral
- Posters
  - Full
  - Emerging
An Example of Oral Presentation
An Example of a Full Poster
An Example of Emerging Research