# Scientific Poster Design

How to keep your poster from resembling an "abstract painting"





Cornell Center for Materials Research



## A poster can be better than giving a talk

#### More efficient because:

- you totally bomb at giving talks
- can be viewed while you nap
- can hang in the department for years
- can reach folks not in your field of research





#### Posters serve as...

#### An advertisement of your hard work

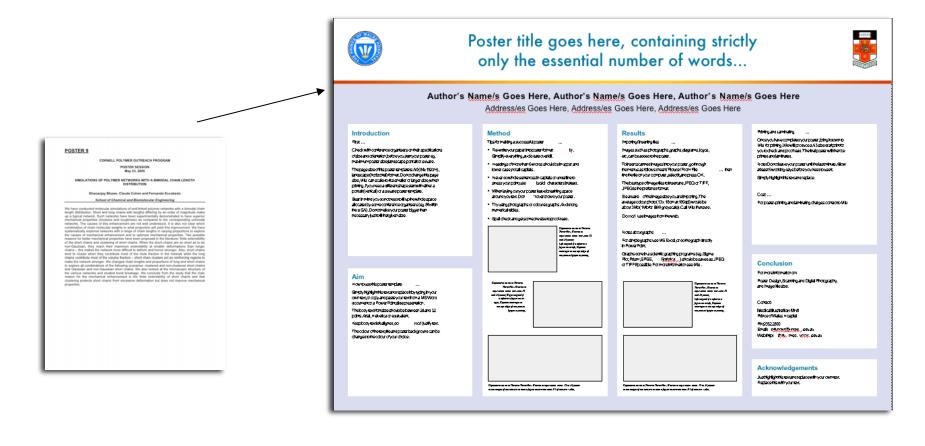


Kool, wow!, check this out!, you must be smart!





## It's just an illustrated abstract





## Is my abstract effective?

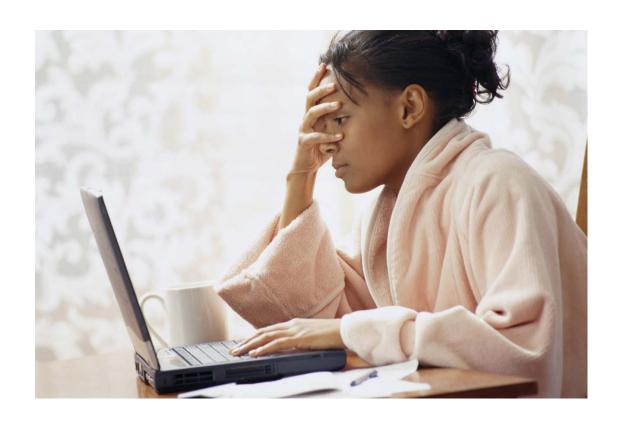
- Why should anyone care?
- What am I adding to current knowledge?
- Do I need to explain methods?
- Have I told them what I found and recommend?





## A portrait of a grad student





@#&%!@#\$, I have 12 hours to throw this thing together and get it printed before it's due.



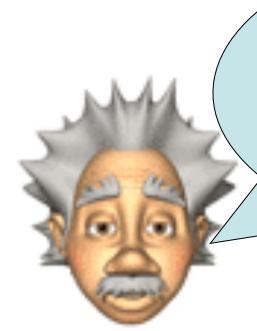
## How do I get months and years of research onto my poster?



- Your poster is a short story
- Describe a few major points
- Arouse the reader's interest to read on
- Limit it to 250 words







## Recite after me, Less is best!



## Cornell Center for Materials Research



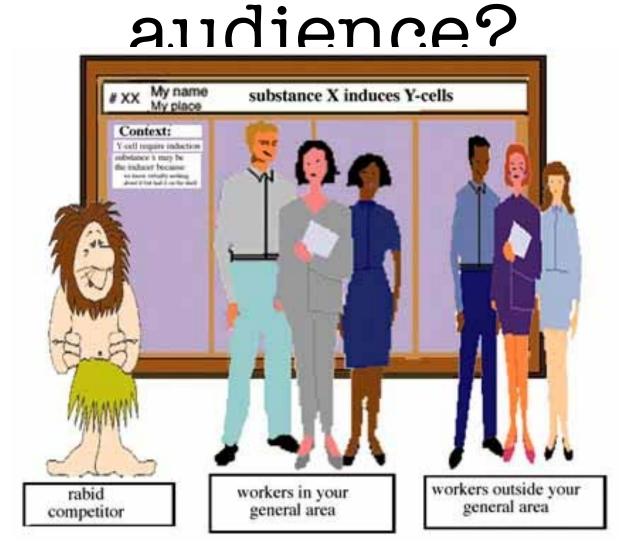
## Simplify your paper into poster format

	<sup>1</sup> Brigham and Womens Ho	T. Farra <sup>1</sup> , M. Jacisin <sup>2</sup> espital, <sup>2</sup> New England College of Opt	ometry, Boston, MA
stroduction	Methods	Results - con't	Results - con't
			Discussion
urpose			
	Results		Conclusions
ample			References

Find out the size required!

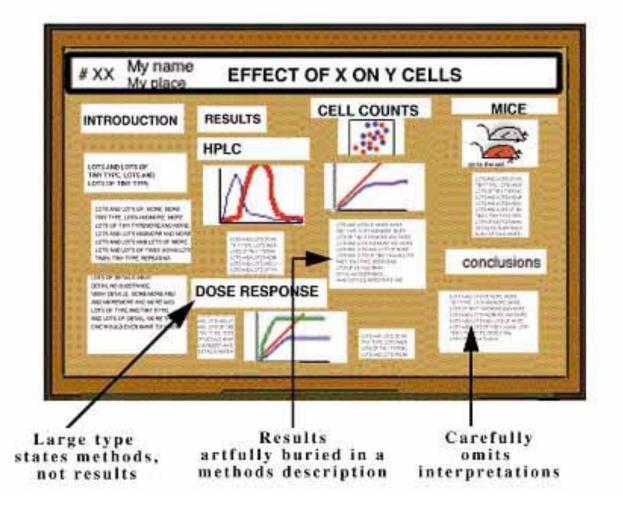


## Whosmy

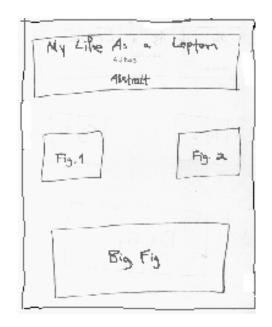




## Remember, most of these "scientists" come for the free booze







Start putting together your 2 main elements

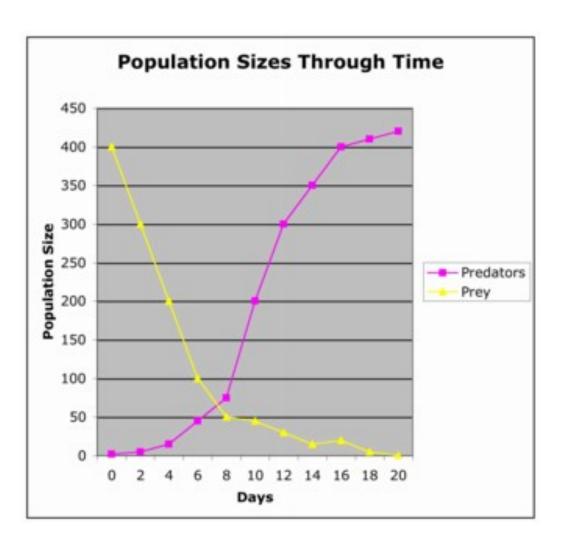




1) Simple, effective data

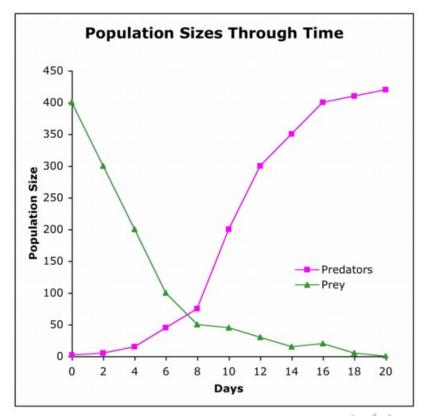
displays

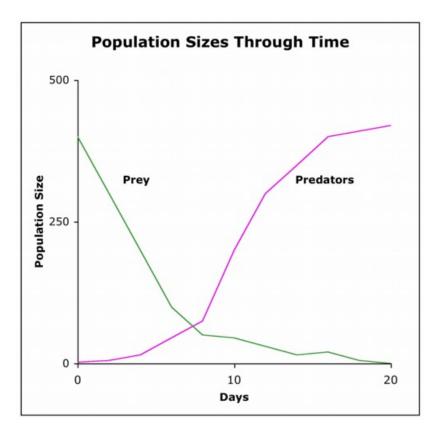
Don their datal.
Stand on their datal.











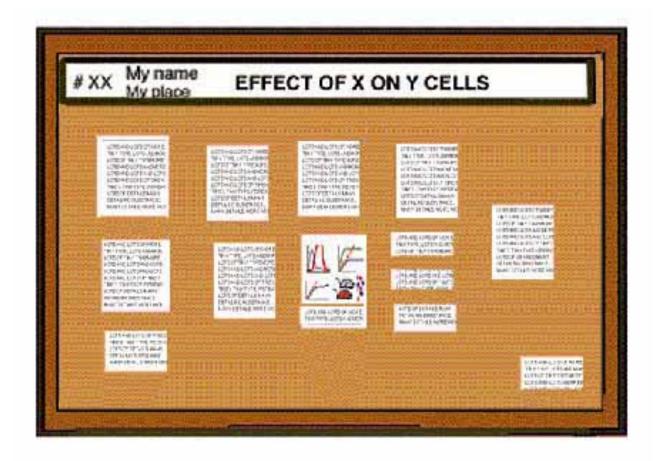






## 2) Small blocks of supporting text

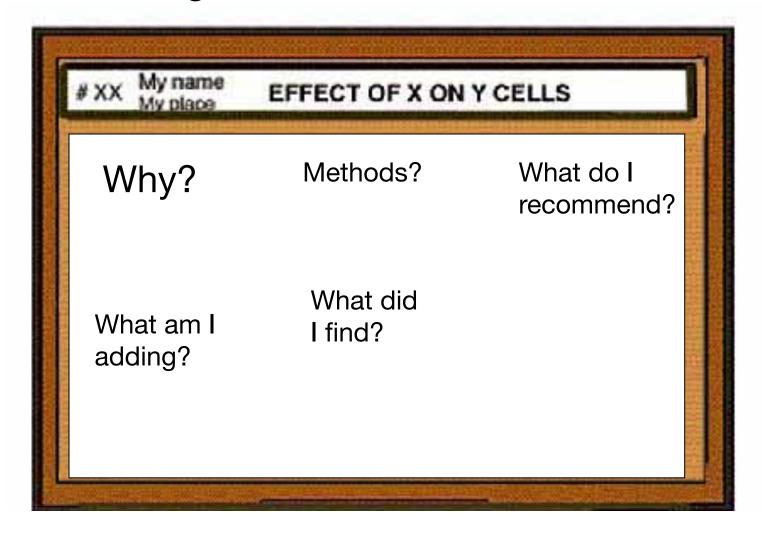
The need for chairs in front of your poster will not go over well





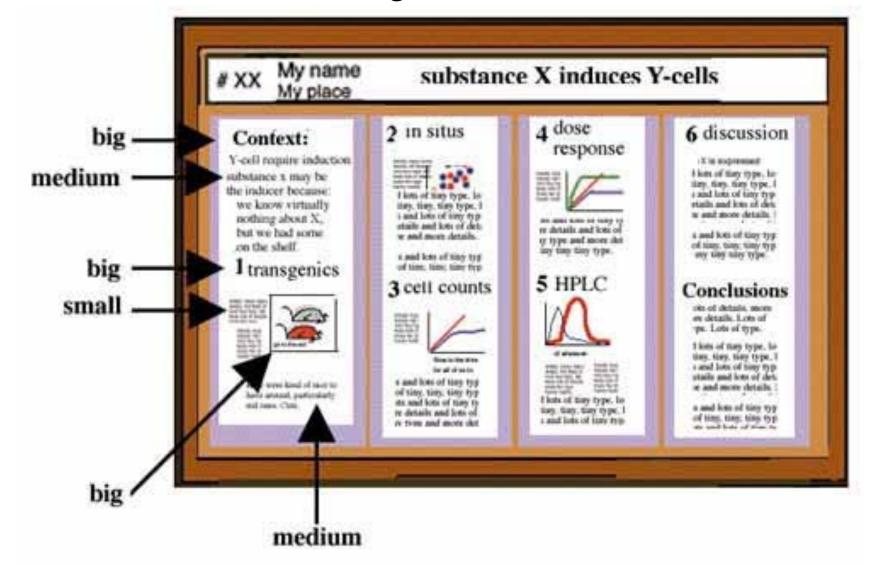


### Your copy should answer...



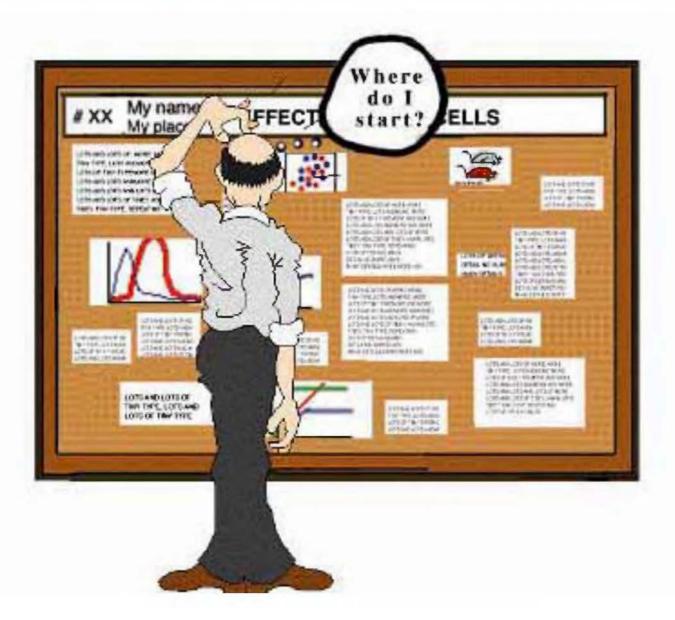


### I could actually read this



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## Pick a software program

Although you'll probably gravitate towards PowerPoint, consider a true design program.





#### PowerPoint



- OK, but the colors will fool you
- Easy to use
- Inflexible
- Designed for overhead projection





### Adobe Illustrator or InDesign



- Excellent
- More difficult to learn
- What you see is what you get
- Others: Canvas, Publish-It, Corel Draw, LaTeX, etc.







Let's design a poster!





#### Your poster title:

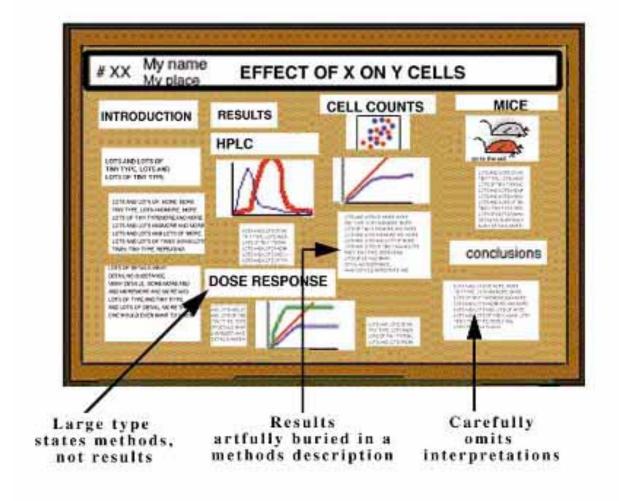
## Think BIG! Really Big!

Your biggest impact! Poster title goes here, containing strictly only the **Boldface** type essential number of words... Not all caps! Author's Name/s Goes riere, Author's Name/s Goes Here, Author's Name/s Goes Here Address/es Goes Here, Address/es Goes Here, Address/es Goes Here Results Introduction Printy and artisting Overpa knesomplass parpass; bity is ever of All for pining We-All passes of distressi pinings socked are passes. Their al pass-All for topines are britises. hepathy i bundy disc bender and su phonography graphy diagrams, logicy, ac, car be Onds - He continues countries or their medical contributions of the are alaruta, babaya wa yarpaany mohampaanda Group authors han Dana languageran meli dalah pelasa dilagai lasa S officers being an early Telem azona baga beyarpang gelengi denama : Ale-a ban: Plane: Fan-Flo . . . der de dede Silverin Hallain Marson are recticed ra dispublicamente l'Es es activos si sectionalmentre company when it is required to -berginde Kyarem addison dapa an -ib diberapasah Netacypea buyeda whan an PEGa TFT, PEGA be names and entell out transpolational passengia. Foreignisting and in the straight display constraints follows Borum — albebraja beyar sebigadig Thorumgadas plantik sion a silapi -adebesta 3-bril-bistishi er verime equiency, their is delaid, for a rate perpendiquely recess, he call to the the CONTRACTOR OF THE PARTY OF THE affiliations Do not <del>subsupados de at</del> بخودي بحظ بعدها Alm Fordingsopheraal to Food, creative good abouts to Simply Habitate the use are replaced by righty in year own use, or



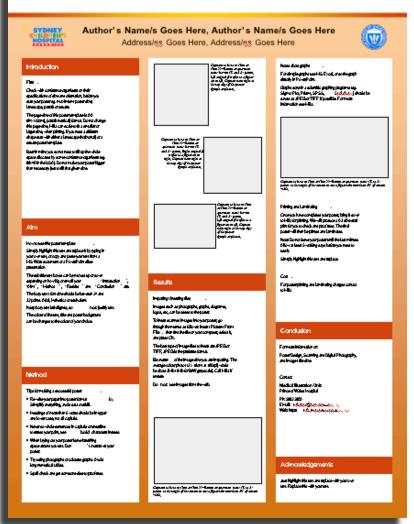


#### The Secrets of Readable Text:





#### Poster title goes here, containing strictly only the essential number of words...



- Leave breathing space around your text
- Plain fonts even serif here
- Same size and style
- Left-aligned
   The reason is...



Hi there, my name is mitch collinsworth and I would like to tell you about myself and how I got this job at cornell. Well you see, my uncle had a friend who knew my cousin on the other side and his daughter worked for facilities. I was down on my luck and my sister told me she knew a guy who's nephew's wife's kid worked for this guys father and what can I say, he hired





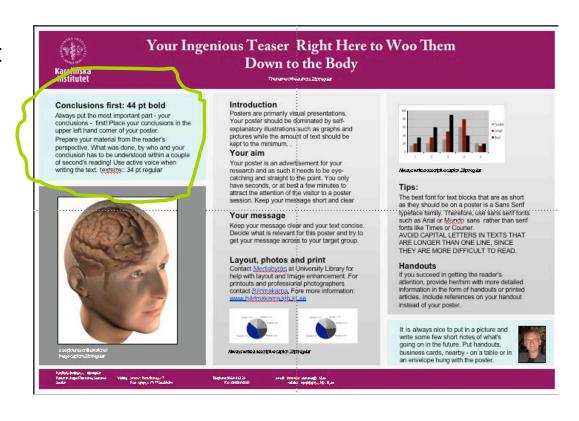
Hi there, my name is mitch collinsworth and I would like to tell you about myself and how I got this job at cornell. Well you see, my uncle had a friend who knew my cousin on the other side and his daughter worked for facilities. I was down on my luck and my sister told me she knew a guy who's nephew's wife's kid worked for this guys father and what can I say, he hired me with no questions asked and just told me to keep my mouth shut. So here I am at CCMR.





#### Conclusions first!

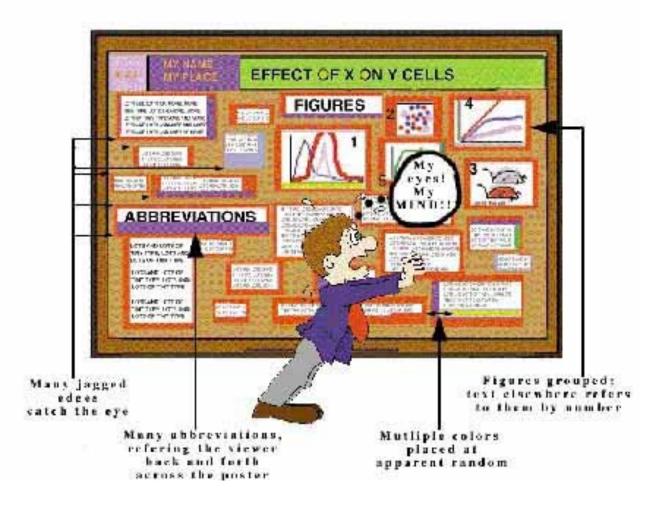
- Put the most important part first!
- Short and to the point!
- Upper left hand corner







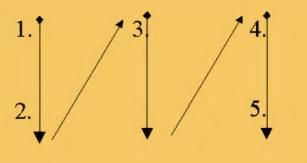
#### Easy for the eye to follow

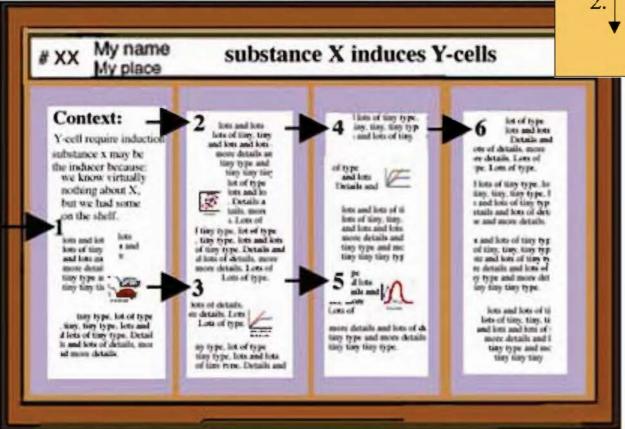


Utter chaos will make folks dizzy!

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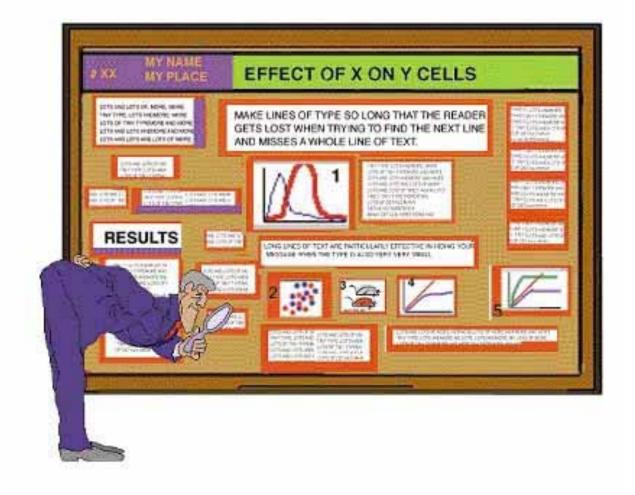








## Can anyone read your body text?







#### Text sizes:

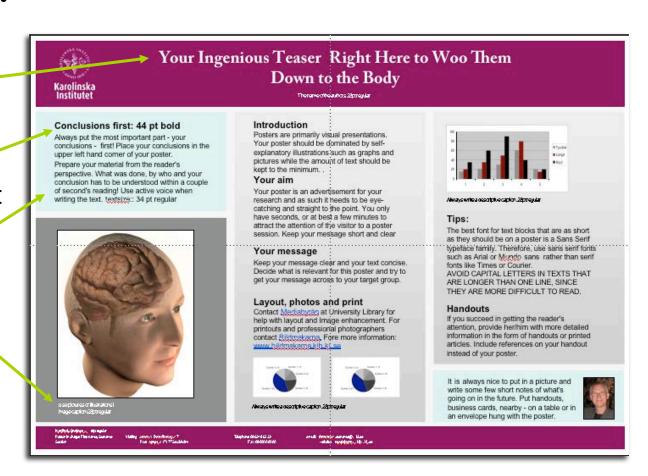
Title: 85 point

Authors: 56pt

Sub-headings: 36pt

Body text: 24pt

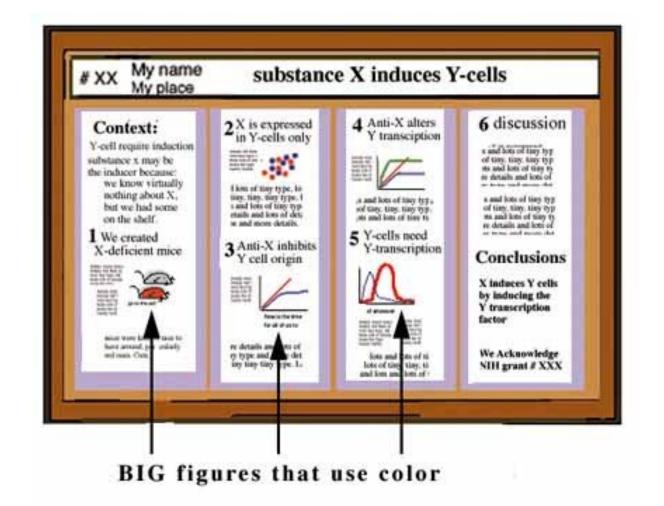
Captions: 18pt







## Images and graphs say much more than words





#### Keep posters visual!



#### Southern Flounder Exhibit Temperature-Dependent Sex Determination

 Adam Luckenbach\*, John Godwin und Russell Borski. Department of Zoology, Box 7617. North Carolina State University, Baleigh, NC 27695.



#### Introduction

Souther's flownian O'eratic fatige between general support valuable industries and office year powers for apparating. Fertiled flownian are known to grow laster and much larger adult need than makes therefore, information on sex determination than might increase the ratio of founds flownian is augmentated for aquacytane.

#### Objective

The study was conducted to determine whether sendent founder exhibit temperature dependent sen determination (USE), and if growth is affected by resulting temperature.

#### Methods

- Southern from the broods and spenn for it appropriately be sufficiently and spenn for it extra furtilization.
- Takehed Jarons were recorded from a natural diet confermationale to high protein pellened find and had another interest bases have during
- Upon conting a most until length of 40 mm. the presents fluorites were stocked at equal described into one of three temperatures 1 K. 23, or 28°C for 245 days.
- Gotads were preserved and finer acclanged at 2-6 microssis.
- Sex-datagnabling markers were used to distinguish make (spermetogenesss) from females (expensio)

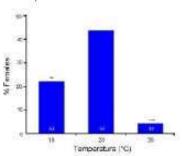
#### Histological Analysis



National Differentiation

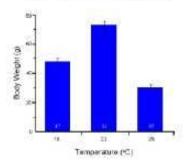


Temperature Affects Sex Determination

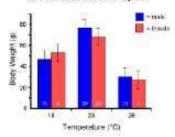


c\*\*P < 0.01 and \*\*\*P < 0.001 expression significant devalues from a 1.1 maio (smole est robo)

#### Rearing Temperature Affects Growth



#### Growth Does Not Differ by Sex



#### Results

- Sex was dissentible in next lish greater than 120 our long
- High (28°C) ampenance produced #1- females.
- Los (1835) temperatur produced 22% firmles.
- Mid-range (23°C) sumperiors produced 44% females.
- First pained at high or low temperatures chosed reduced growth compared to those at the mid-range temperature.
- Up to 245 days, no differences in growth existed between seven

#### Conclusions

- These findings indicate that sex descritation in contiem flounder is temperature scientists and temperature like 4 profound effect on growth.
- A mid-usage reasing temperature (2PC) appears to maximize the number of females and promote better growth it young southern flounder.
- Although adult feacules on known to graw larger than make, to difference as growth between coors occurred in age-0 to 1 years weathern flounder.

#### Acknowledgements

The confect schemissing the Advanced Research Program of the instruct Matter Mineral School and the Conjugation of Social Geological Confection of the Conf



#### Picture perfect photos

Avoid resolution overkill!
 At least 150 dpi, but no more than 300 dpi

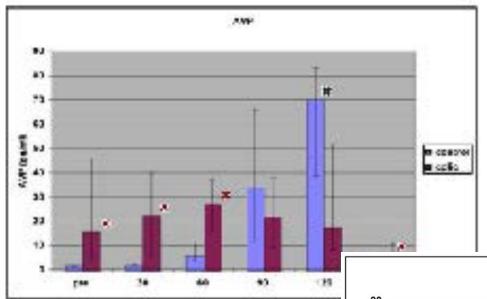


- Save photos as jpg or png
   Line art as a png (graphs)
- Web images are usually poor resolution

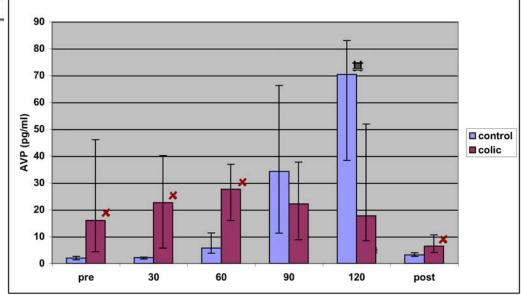


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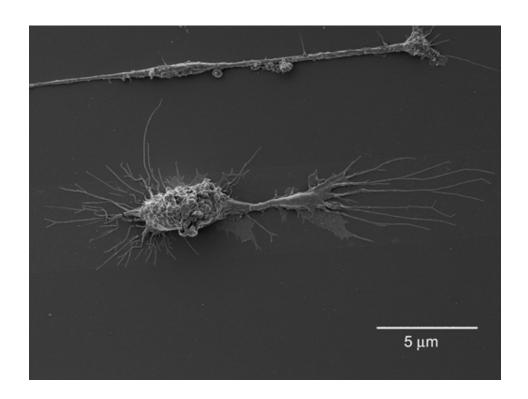
jpg



AVP (median, 1st, 3rd quartile)

png





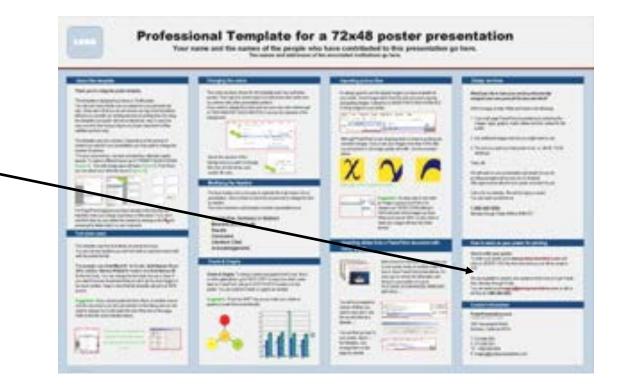
Your cool images mean nothing without a scale bar or description





# Don't forget your funding acknowledgements

CNF-NSF-BMR, etc Your department can provide you with the required wording



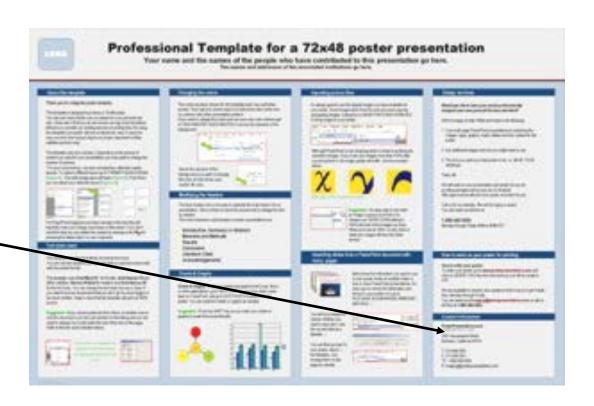


# Your contact info!!!

Without it you'll become "ya know, those guys with the awesome poster"

# Include all contact info:

- Mail address
- Phone
- E-mail

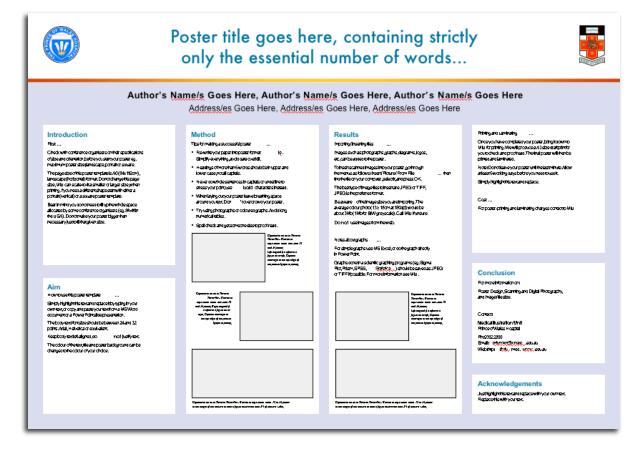




# Using color to engage your readers

2-3 colors, no more!

Dark type on light color background





# <u>CCMR</u>



# Whoa! Where's my sunglasses?

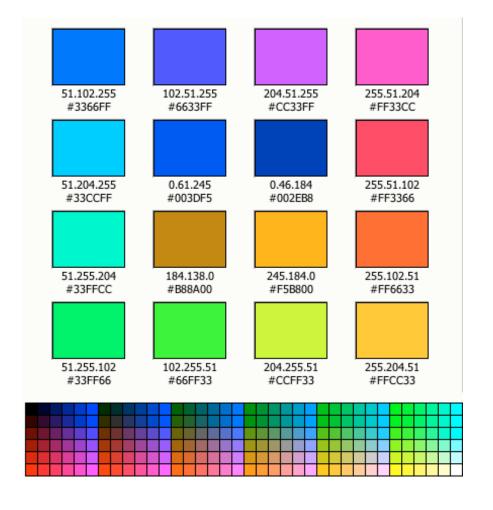


This attracts attention but tires out the eye





# Be carefull with the primary colors







Yellow on white is hard to read









http://www.colorschemer.com/online.html





# Be aware of busy backgrounds

# **NC STATE UNIVERSITY**

# Snook Growth in Habitats with Differing Abiotic Variability

Alesia Read, North Carolina State University, anread@unity.ncsu.edu

# PROPOSED OBJECTIVE

To create a useful tool for assessing potential stocking habitats based on degree of variability in water quality.

- \* Snook are a popular game fish found in the estuarine creeks of Florida
- Snook population has been on the decline due to overfishing and habitat degradation
- \*Numerous stock enhancement endeavors are currently underway without sufficient preliminary research
- Abiotic variability is a prominent feature of these estuaries
- Temperature, dissolved oxygen and salinity might play influential roles in the survivorship of the juvenile snook

### STUDY SITES



# METHODS

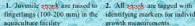










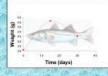


identifying markers for individual

3. Fish are placed in cages within variable habitats at the research sites for 40 days. 4. Fish are weighed and measured for growth

# RESULTS

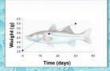
# North Creek Lower (High Variability)



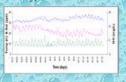
Negative Growth: Dissolved Oxygen (mg/L) 0-22 Salinity (pgt) 2-21 Temp (°C)



# North Creek Middle (Medium Variability)

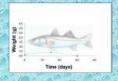


Positive Growth: Dissolved Oxygen (mg/L) Salinity (ppt) 16-28 Temp (°C)

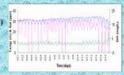


# North Creek Upper (Low Variability)

30-38



Slow Growth: Dissolved Oxygen (mg/L) Salinity (opt) 16-30 Temp (°C)



# DO (mg/L) [Sal( mgf) [ Temp ( /C) ]

# CONCLUSION

- Snook exhibit increased growth in habitats with a medium degree of abiotic
- Stock enhancement projects will be more efficient by releasing juvenile snook primarily in nursery habitats with a medium degree of abjotic variability



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### CONTRACTOR AND ADDRESS OF THE PARTY.



# Southern Flounder Exhibit Temperature-Dependent Sex Determination

 Adam Luckenbach\*, John Godwin and Russell Boeski. Department of Zoology, Box 2617. North Carolina State University, Baleigh, NC 27695.



### Introduction

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### Objective

The study was conducted to determine whether workers founder exhibit warpoint in dependent one determination (ISC), and if grown a affected to remain given some conductive or the second of the secon

# Methods

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- I per matering a reconstruct length of 40 mm be justice that the wire stocked at equal denotes into one of three temperature (6 2) or 20°C to 245 days.
- Compain with a concerned and fame on thereof at 2.6 three co.
- Bots distinguaching sparkers were used to distingual region (specipiology series) for a testales to sparse sice.

# Histological Analysis

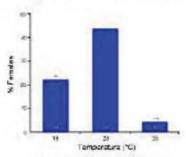




Nate Differentation

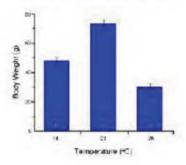
France Differentiers

## Temperature Affects Sex Determination

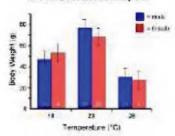


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# Rearing Tomperature Affects Growth



# Growth Does Not Differ by Sex



### Results

- Sex was discontible in most field greater then LN( or in
- . High (34) I sangenius produced # Linnais.
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- Mil maje (23%) amounts a robated 40% function.
- From tokend at high in airs between a tree of other configuration.
   Growth compared to those of the mult range temperature.
- Up 6: 245 days in difference in growth as said between once.

## Conclusions

- These findings makes that we describe we in a where lander is temperature expellent and temperature line a protein deflect on provide.
- A mid purpa rearring represent (20%) apparain to aucuning the non-ber of finances and present being greath in some greathern forester.
- Although while females are known to grow larger than trained to difference in growth between processor and in ago-Ois 1 crari synthetic florands;

# Acknowledgements

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# Cornell Center for Materials Research



# A little different!



# 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 (Peralichthys lethestione) 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

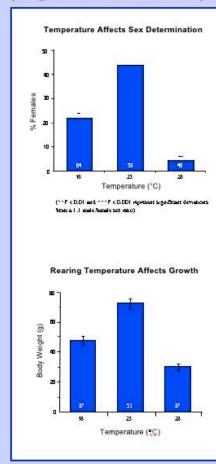
- · Southern flounder broadstack were strip spawned to collect eggs and sperm for in vitro fertilization.
- · Hatched larvae were weaned from a natural diet (zotifers/Artemia) to high protein pelleted feed and fed until satiation at least twice daily.
- . Upon reaching a mean total length of 40 mm, the 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
- · Sex-distinguishing markers were used to distinguish males (spermatogenesis) from females (ongenesis).

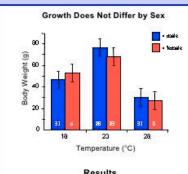
# Histological Analysis





Make Differenciation





### Results

- . Sex was discernible in most fish greater than 120 mm
- . 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.

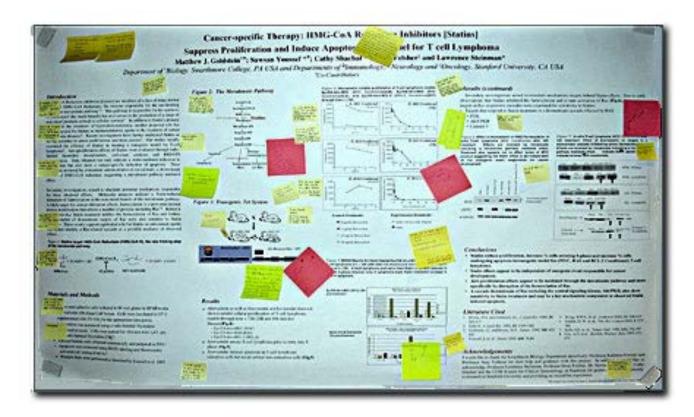
# Acknowledgements

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# Edit, Edit, Edit and Evaluate!



# <u>CCMR</u>



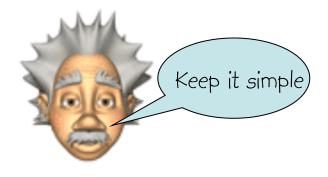
# Print out a letter size draft

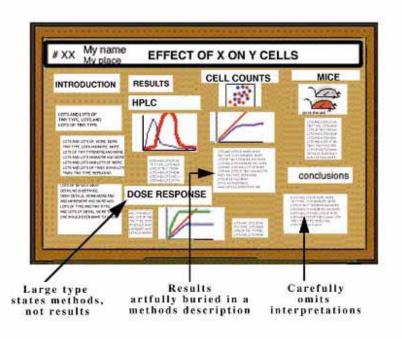
Can you read the type?

Are these the colors you really want?

Does it look too busy?

Do my main points pop?









# CCMR has 2 poster printers!

Our wonderful computing facilities offers state of the art poster printing





The secret of a good poster: "Ugly design print ugly poster"

http://cf.ccmr.cornell.edu/cf\_newsite/poster\_print/index.html

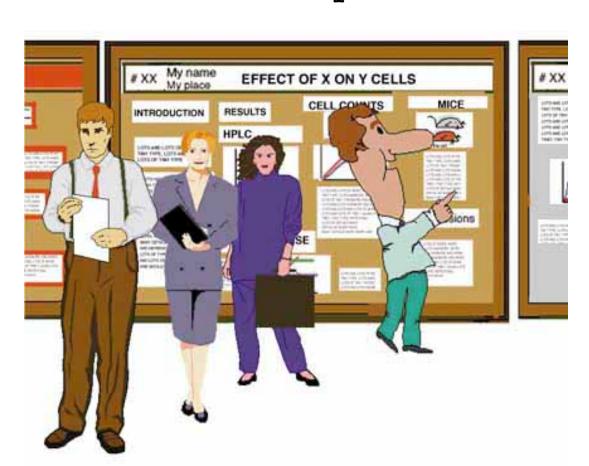




# You're not done yet...

Prepare a 3-5 minute verbal explanation

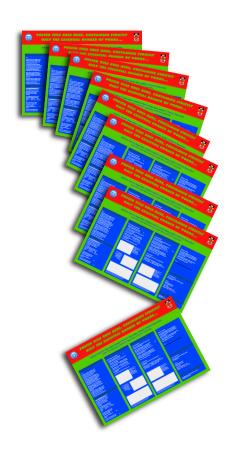
Is he ever going to SHUT UP???







# Prepare mini size poster handouts



- Provides a written record for interested folks
- Makes you look together
- Be sure to include complete contact information
- Might even get you a job!









Let's judge some designs and see what you've learned



# Using a Windbreak Habitat Model Across Broad Landscapes: The Effect of Local Landscape Composition and Geographic Location

George Hess John Poulsen Raymond O'Connor Jeff Bay

### 1. Windbreaks as Habitat

to premior boot more than the graphs. In the 1-3, death Primi, and interest explainted leadings, relationals have being admitted in proton fields, crops, interests, and framework from the precision, which. Whilefords premish among of the access would hashbert for best and other whilely that people there come to when the control of the control of the would cover in Nobration, much of the other would cover arrange imaging and control or

- \* Farty windlevals were compled using two stage compling with a frame stratified by intensity of
- Most sample windbrooks folkin or must consider cropland.

# 2. Regional Evaluation of Windbreaks

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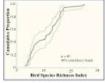
### 3. Bird Species Richness Index

No and the U.S. Note and Wild to Service's Bad Species Stelland locks: (ISSE), which yellowers the member of Breeding Holf species a single visualized one copport hand no four windboard and them.

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Nebraska's Agricultural Landscape

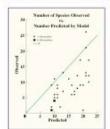




- Using expansion factors associated with each comple, we relievated the habital value of windlessels for the region (graph left).
- 🛊 Me estimated that half of Networke's mindlereds support force than It breeding hird species graph left s.
- 100% of winderedo are emailer than 1,5 becarse cluts not showe, suggesting that few Nebrusham windlessale provide habitud for fexed interior or area nearlies birds.

### 4. Validating BSRI Model

Each windress was risked from time. Data may collected her sycan one-half how below and four laws after motion. All observed block were Managhad to species and recorded using upon mapping todampters. Tops morehold sensitivations of the nations succeeds and way placed on the fault pass fromigh the wealthcale for each visit.



### 5. Results of Validation

The model overceinance the number of Ked species in the Nebugala windfreeds graph left. However, the relative qualitative realing or windfreeds, is generally generated. A final of 51 species were observed.

observed from predicted member of species and any utadireal attribute or the prographic feculies of individual windirealis.

### 6. Failure of the Model

to product accomplety the receiver of Ninth species in the windbrook

### 7. Local Landscape-Scale Effects

will find, very, grans / bertharrens, howen / now expedited, and in Falsons and carelo graning were also recorded species: / absents.

### 8. Conclusions

The Bird Species Richards Index for windfreads cannot be careaful chapte to describe species richards at large regimal water without relative resultations regimed; as along leaves has account for difference in repieral species point.

Advanced edgements: This work could not have been done without the many dedicated people or the National Agricultural Statistics Service who helped planted encode the 1994 data collection effort, the kind farmen who allowed us to survey their windwoods, the five enabledegists who spent six works raveling accord Nebraska; and many other people from the University of Nebraska; U.S. Fish and Wildlife Service, Natural Recognos Conservation Service, and the Environmental Protection Agency. Purding was provided by the Reviewmental Protection Agency and the USDA Agricultural

1. North Carolina State University: Foreign Broadmant, Rabinto NC 2. University of Marie Department of Wildlife Ecology Crem. ME



# A bit text heavy but not too bad.



# CCMR.

# Cornell Center for Materials Research





# Determining the Wear Resistance of Occlusal Splints in a Prospective Clinical Study

P. Ottl, P. Schmelz, A. Piwowarczyk, H.-Ch. Lauer

Dept. of Prosthodontics, School of Destistry (Director: Prof. Dr. H.-Ch. Lauer), ZZMK (Carolinum), J. W. Goethe University, Frankfurt, Germany

# Objective

 To determine quantitatively the wear resistance of a newly developed light-curing splint resin over a period in situ of six months.

# Materials and Methods

### • Patients

n = 20 consecutive patients (mean age: 34.7 years; 12 F, 8 M)

### Inclusion criteria

- Natural dentition/fixed denture
- Complete dentition to at least the 1st molar and

for the stabilization splint sample:

- Insufficient occlusal support
- Increased occlusal loss of dental hard tissue

### for the distraction splint sample:

- TMJ coin and
- Complete anterior dislocation of the disk without reduction/with terminal reduction
- TMJ osteourthrosis



Fig. 1: Subitation offer modu

# • Resin splint material (Fig. 1)

- Light-curing (400–500 nm) resin made of high-molecular dimethacrylates with organic and inorganic fillers
- Does not contain methyl methocrylate

# • Study design

- Duration: 6 months
- Types of splints (macilla, n = 10 each): stabilization splints, distraction splints
- Splint wear mode: 24 hours
- · Examinations:
- before insertion (BI), at 4 weeks (4W), at 3 months (3M), at 6 months (6M)
- Occlusal adjustments were restricted to the time before 4W.

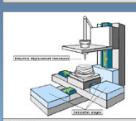


Fig.2:Tet.seto

# • Measuring technology (Fig. 2)

- Vibration-isolated table framework
- 3 translation stages (for directions x, y, and z) ( DC-Motor) (PL Waldbronn)
- DV 4 stereomicroscope (Zeiss, Oberkochen)
- WA 20 inductive displacement transducer/
  Spider8 digital 8-channel measurement unit/
  Catman 32 software V2.1 (HBM, Darmstadt)
- Local coordinate storage for occlusal contacts during baseline measurements
- Ten measurements each in regions 13, 23, 16, 26 (BL, 4W, 3M, 6M)
- Splint repositioned on remount east

# Results

- The medians of the occlusal vertical gains/losses (wear, resin toesion, water sorption, etc.) are shown in Fig. 3 (stabilization splints) and
- Fig. 3 (stabilization splints) and Fig. 4 (distraction splints).

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Fig. 2. Outlied verted patroleous (radiate) of the resp. in the over a periodic site of six matter (a  $\simeq$  10 substantial spire)

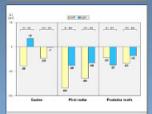


Fig. 4: Ordered vertical grins/house (readings) of the near in vivo over

 Statistical analysis (Mann-Whitney U-test, p≤0.05) showed no significant differences when comparing the corresponding results of stabilization and distraction splints.





gs, Sa and It: Sugital eldings image (10%) of the condute News introdup with our plant (Fig. Sa) and with distraction splant measurig. Sb). Indiving its morable of wearing.

# Conclusions

- The present study elinically confirms the good wear resistance results of the new resin splint material obtained in a previous in-vitro study (OTTL et al., Disch Zahnitztl Z 52, 342 (1997)).
- Good wear resistance is of great importance for maintaining the therapeutic mandibular position during the treatment period (Figs. 5a and b).

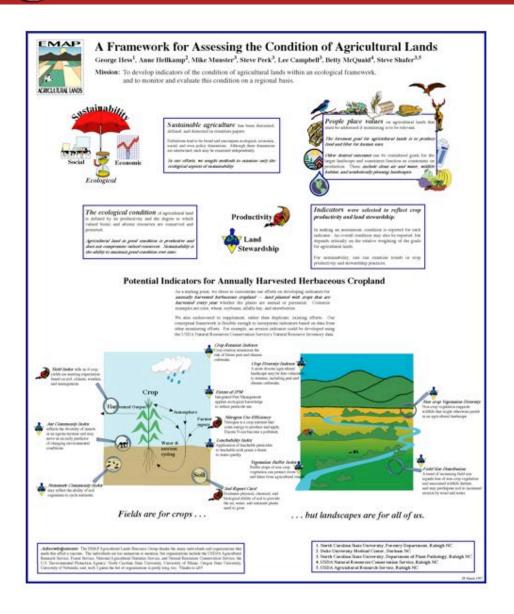


# Nice poster



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# Where do I begin?



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# PREVALENCE OF OBESITY AMONG INNER CITY LATING CHILDREN AND ADOLESCENTS

Nazent M. Mirza MD, ScD, Jill Merchant MS, Leile Beker, PhD

Children's National Medical Center and George Washington University School of Medicine and Hoefth Sciences. Windowskie, DC

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# I'm feeling sleepy



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# Early Outcomes of the First 1471 Consecutive Kyphoplasty Procedures in the United States for the Fixation of Painful Osteopenic Vertebral Body Compression Fractures (VCF)

Steven R. Garfin', M.D., Isador W. Lieberman', M.D., Mark A. Ralley', M.D., Joseph M. Laner', M.D., Flank W. Philipe', M.D., Hallett B. Mathoue', M.D., Hanson A. Yuan', M.D., Santon H. Sache', M.D., for the Hyphopiashs Shuby Group. University of California, San Diego, Missional Caretor, San Diego, CA, "Claveland Clinic, Cincoland, CH. "Sevening Orthopenin Manitard Droug, Serbestry, CA, "Houghal for Special Surgery, New York, NY, "Volversity of Chicago Spine Center. Chicago, S., "Mile Allartic Spine Specialists, Richmond, VA, "State University of New York Health Sciences Center, Systeman, NY, Wilson, Medical Center, Allary, NY

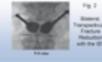
### BACKGROUND

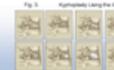
- 700,000 VOF's per year
- 275,000 diagnosed, >80% due to pain
- Spinal deformity associated with Significant morbidly
  - 23% increased mortality (Kado, Arm Int Med 1999).
- Current treatments ineffective
- Open surpotes fall
- Medical management pallative
- Vertebrophety
- **Bilatoral transpedicular coment fill**
- Relieves pain
- Requires high pressure and runny cameral
- High risk of corners leads . Us to 73% where documented
- (Multist at., Radiology 1997) Major complications (Chinas, J Int Neurosal 1997)
  - # 1.3% in references
  - 10% in mutastatic carriers.

# KYPHOPLASTY

Ephoplasty is a minimally invasive orthopadic procedure for reducing and floing painful vertebral body compression fractures secondary to penia. Using a posterior approach, one or two inflatable flore Tamps (Fig. 1) are inserted into the fractured writefund body, generally using a blatural transpositular approach (Fig. 2). The surgeon carefully inflates the balloon tamps (Fig. 2) using radiopaque contrast medium with image, volume and pressure control. The increased belicon tamp volume compacts the inner cancellous tions as it pushes the fractured outer control tone back toward its normal position. The inflation path is also controlled by placement, volume and balloon design. After reduction, the balloon tamp is removed, and the resulting cold is filled with thick PMIDS under time manual control and low pressure. The steps of Apphoplasty are Businated in Fig 3.



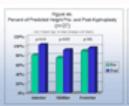




# Kuphoplasty Lising the IST

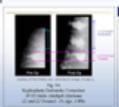
### STUDY DESIGN AND METHODS

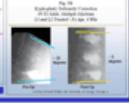
A retrospective multi-center review to assess early outcomes with Kyphoplasty. Pain was localized by physical examination. The presence of marrow edone and colleges was confirmed on MRI. General or deep local ancethosis was chosen based on anutomy, number of levels and patient status. The first 135 patients at our centers were saled to characterize their back pain as improved, the same or worse 24 hours post-op and at last follow-up Fractured and nearest normal vertebral body heights were measured anterior, motive and posterior in the first 27 vertebral body fractures treated by one surgeon (MAR). The height of the nearest normal vertained body was used to calculate the % of predicted height for all the vertebral bodies (Fig. 44) and for the sub-set where which had lost 15% or more of height before treatment (Fig. 48).





The pre-treatment height was subtracted from the predicted height, then divided by the post-treatment height subtracted from the predicted height, to find the percentage of ited height restored. One set of X raps by one surpeon (FMP) are used to show an example height restoration (Fig. 5A) and deformity correction (Fig. 50). Device-related major complications from all procedures are reported. PMWA leaks in the first 70 procedures performed by one surgeon (IHL) were assessed with X-ray and MRI.





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APPROXIMATE PROPERTY AND

# CONCILUSIONS

Kiphophoty is an important treatment option that provides immediate mobility and return to activities of delty living to patients with notely painful vertalled body compression fractures according to enterposis. Xiphophoty facilitates fracture relative and deliverity accounts. While reduction is more likely in acute fractures (four months or less), it has been uses in fractures over one your old. Exploratory also provides regist pain relial in the monty all potents, and this result in independent of fraction realization. The reliefs profile of Kephoplasty compares forestably to the published solety profile of variabroplasty.



# OK, but which way do I go?



# Cornell Center for Materials Research





# Poster title goes here, containing strictly only the essential number of words...



# Author's Name/s Goes Here, Author's Name/s Goes Here, Author's Name/s Goes Here

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### Conclusion

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### Acknowledgements

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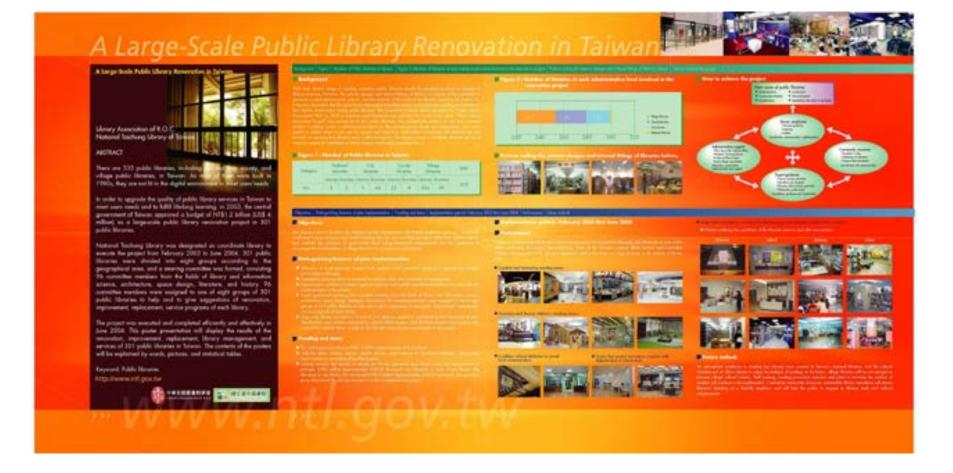


# Perfect!



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Oh my gawd!

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# WHICH IS MORE IMPORTANT: NUMBER OF PATCHES OR CONNECTIVITY?

Darin Kalisak, PBS Student

Centri disks@eatyweith

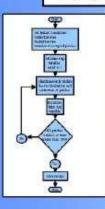
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# THE PROGRAM



### ASSUMPTIONS AND LIMITATIONS

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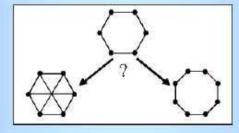
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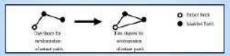
# THE ISSUE



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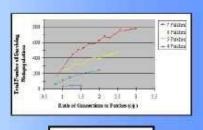


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# CONCLUSIONS

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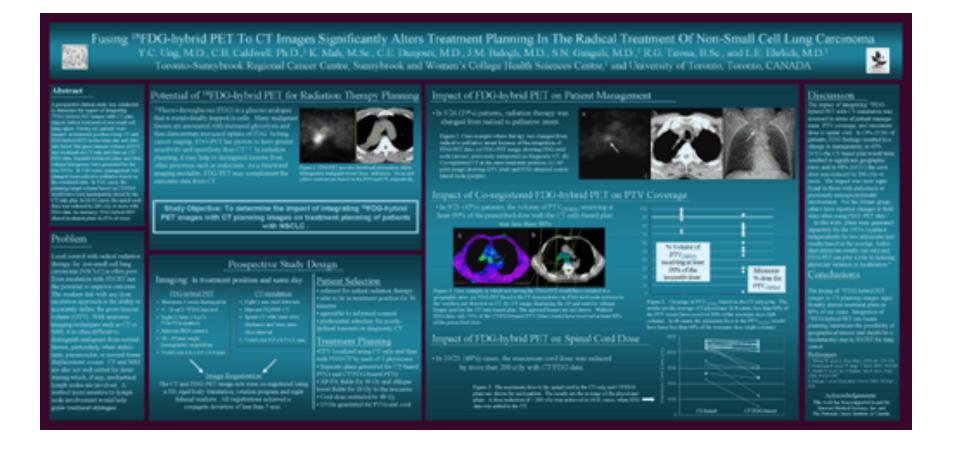


# Nice flow, but too metallic



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I've fallen, and I can't get up





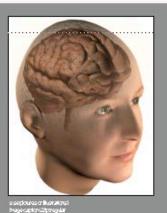
# Your Ingenious Teaser Right Here to Woo Them Down to the Body

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# Conclusions first: 44 pt bold

Always put the most important part - your conclusions - first! Place your conclusions in the upper left hand comer of your poster.

Prepare your material from the reader's perspective. What was done, by who and your conclusion has to be understood within a couple of second's reading! Use active voice when writing the text. texteine: 34 pt regular



# Introduction

Posters are primarily visual presentations. Your poster should be dominated by selfexplanatory illustrations such as graphs and pictures while the amount of text should bekept to the minimum.

### Your aim

Your poster is an advertisement for your research and as such it heeds to be eyecatching and straight to the point. You only have seconds, or at best a few minutes to attract the attention of the visitor to a poster session. Keep your message short and clear

### Your message

Keep your message clear and your text concise. Decide what is relevant for this poster and try to get your message across to your target group.

# Layout, photos and print

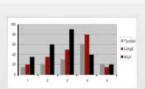
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www.hildmakama.kih.kt.sa





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## Always write a descriptive captor 32 progular

# Tips:

The best font for text blocks that are as short as they should be on a poster is a Sans Serif typeface family. Therefore, use sans serif fonts such as Arial or Mungo sans rather than serif fonts like Times or Courier.

AVOID CAPITAL LETTERS IN TEXTS THAT ARE LONGER THAN ONE LINE, SINCE THEY ARE MORE DIFFICULT TO READ.

### Handouts

If you succeed in getting the reader's attention, provide her/him with more detailed information in the form of handouts or printed articles. Include references on your handout instead of your poster.

It is always nice to put in a picture and write some few short notes of what's going on in the future. Put handouts, business cards, nearby - on a table or in an envelope hung with the poster.





# Gorgeous!

Pance in charge Film runes, Secure

Making province three-flowings of Post agreety of the Tribucking Tapon NO 10129 Facilities and troops arrang. Has

# Cornell Center for Materials Research



# RELEASE VENTILATION (APRV)

Leyfis J. Kaplan, MD\*T. Heatherlee Bailey, MD, FAAEMP Medical College of Pennsylvania-Halmensann University Departments of Surgery and Emergency Medicine P, Philadelphia, PA USA

# INTRODUCTION

Airway Present Refer Vendation; APKY, a.k.s. BIPAP) has been previously demonstrated to be a sinflat analytic for a property with acres long jujury (ALI) or the acute respiratory distrigues a reference [AIID5]. As this is a fundamentally different mode than conventional cyclic syndiction, with a property and a single instantion's experience with APKV to determine safety, pumplication of two plantages of the resolution in potentia and hypercurbia.

# METHODS

Connective potential positioned from other volume or pressure targeted ventilation to APRV (Drager Faith & Fultomenty Workstrawn) at a University brought surgical ICU were retrospelitedy tertinent. Patients initially contilated with APRV were excluded. Initial ARPV settings to configure to position of the prior plateau pressure of Fig. 10 positions of the prior plateau pressure of Fig. 10 positions of the prior plateau and a Tig. 10 ON set. Hypercurbic (pCO<sub>2</sub> ± 85 tors and pH ≤ 7.3) putterns were set at a fig. 10 f. 60 set at the foreign were adjusted to resolve by processin and by percentilated. Billiamproved abstracted data included principal diagnoses, conflation permissives, inflating viduos and contilates associated complications. Data before and differ APRV were computable toing a two-tailed paired t-test or Chi-square as appropriate; sugnificance was assumed Set 10 ON (1).

# RESULTS

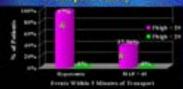
APRV

# Demographies

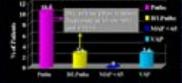


	f. beneved	Value
	Sa Hypermula	88%
22	% Hypercachia	12%
100	Time to S <sub>1</sub> O <sub>1</sub> = 92%	Tg 4 min
7.4	Time to \$100 ± 0.8	5.2 ± 9.7 for
30	Time to pCO <sub>1</sub> ≤ 40 torr	47 ± Texts
	Time to man A pCO <sub>2</sub>	76 g 12 min
120	Mean change in V <sub>2</sub>	-3.5 ± 6.9 Limin*

# Transport Safety



# Complications



# CONCLUSIONS

- APRV is a safe rescue mode for hypotensic or hypercarbic respiratory failure and requires a significantly lower V<sub>e</sub> than conventional ventilation.
- Decreasing release phase volumes and a rising pCO<sub>2</sub> are strong indicators of pneumothoras in a patient on APRV. Routine end-tidal CO<sub>2</sub> monitoring is recommended.
- Preparation for safe intra-hospital transport may be keyed to the P<sub>high</sub> required for oxygenation and ventilation. Patients requiring a P<sub>high</sub> > 20 cm H<sub>2</sub>O should be transported on the ventilator.



Welcome to the 80's

Fer sure!

Results Inputy heaty die

# Cornell Center for Materials Research



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### Introduction

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# Helpful sites on poster presentations:

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# LiLynn Graves

Web and Graphic Designer, CCMR



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