Scientific Poster Design

د.نورة بنت زومان الزومان

الهدف العام

إكساب المشاركة المعارف والمهارات والاتجاهات الإيجابية نحو إعداد وعرض الملصقات في المؤتمرات بشكل فعال

الاهداف التفصيليه

من المتوقع بعد الانتهاء من المحاضره أن تصبح الحاضره قادرة على أن:

- تدرك أهمية تقديم وعرض الملصقات العلمية في المؤتمرات
- تطبق الإرشادات العامة لتصميم الملصقات العلمية
- تطبق آليات بناء الملصقات العلمية
- تستخدم البرامج المناسبة في تصميم الملصقات العلمية
- تفرق مابين الملصقات الجيدة وغير الجيدة
- تطبق آليات تقديم الملصقات العلمية في المؤتمرات

لماذا نشارك في المؤتمرات العلميه

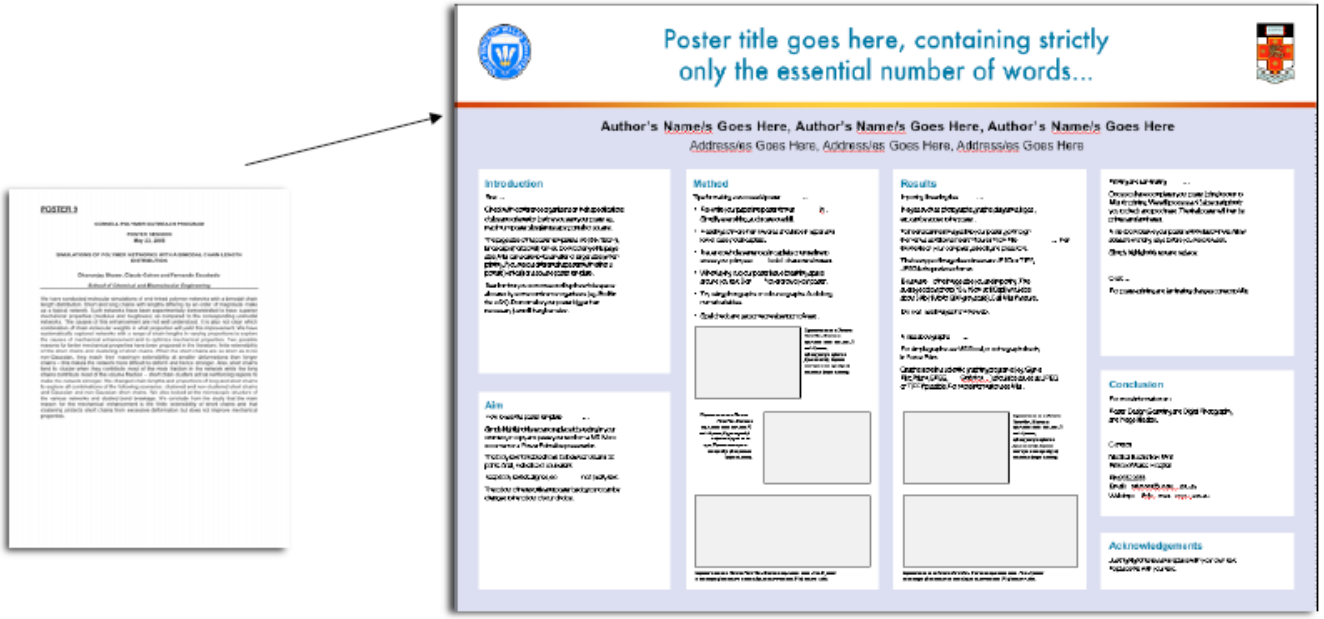
- لقاء الأصدقاء
- مناقشة أفكارنا مع الآخرين
- نشر نتائج أبحاثنا
- اكتساب معلومات وخبرات
- إيجاد فرص وظيفية
- التعرف على المهتمين بالمجال
- إثراء السيرة الذاتية

أنواع الملصقات

- **تختلف الملصقات حسب أهدافها**
- **تثقيفية**
- **علمية**
- **إرشادية**
- **ترفيهية**
- **إعلانية**

الملصق العلمي

It’ s just an illustrated abstract



الملصق العلمي

- لوحة عرض كبيرة
- تلخص موضوعات علمية عن طريق الصورة والرسم والعبارات الموجزة بغرض تقديمها بسرعة وفعالية
- بحيث تجذب نظر من يمر بها وتشد انتباهه للموضوع
- وتقدم عادة خلال اجتماع أو ندوة أومؤتمر أو أي تجمع علمي آخر.

ملصق ام ورقة

- **قلة الخبرة**
- **صعوبة الموضوع**
- **ضعف اللغة**
- **عدم الجرأة**
- **تخصص الموضوع**

ملصق ام ورقة

- اكثر فعالية من المحاضره احيانا
- موجودة في حالة عدم تواجدك
- وقت اقل من المحاضرة
- تمنح القارئ وقت اطول للاطلاع و المناقشة
- يمكن استخدامه لفترات طويلة
- يمكن لغير المختصين الاطلاع عليه

مراحل إعداد الملصق

المرحله الاولى

فهم المطلوب

التفاصيل المطلوبة

- **عادة ما ترسل الجهات المنظمة للمؤتمر نداء فيه تفاصيل المطلوب من حيث:**
- **الموضوعات**
- **طبيعة البحث**
- **حجم الملصق وتفاصيل الإخراج**
- **مستوى نضج الفكرة**

المرحلة الثانية

اعداد جدول زمني

النسبة الزمنية لكل مرحلة

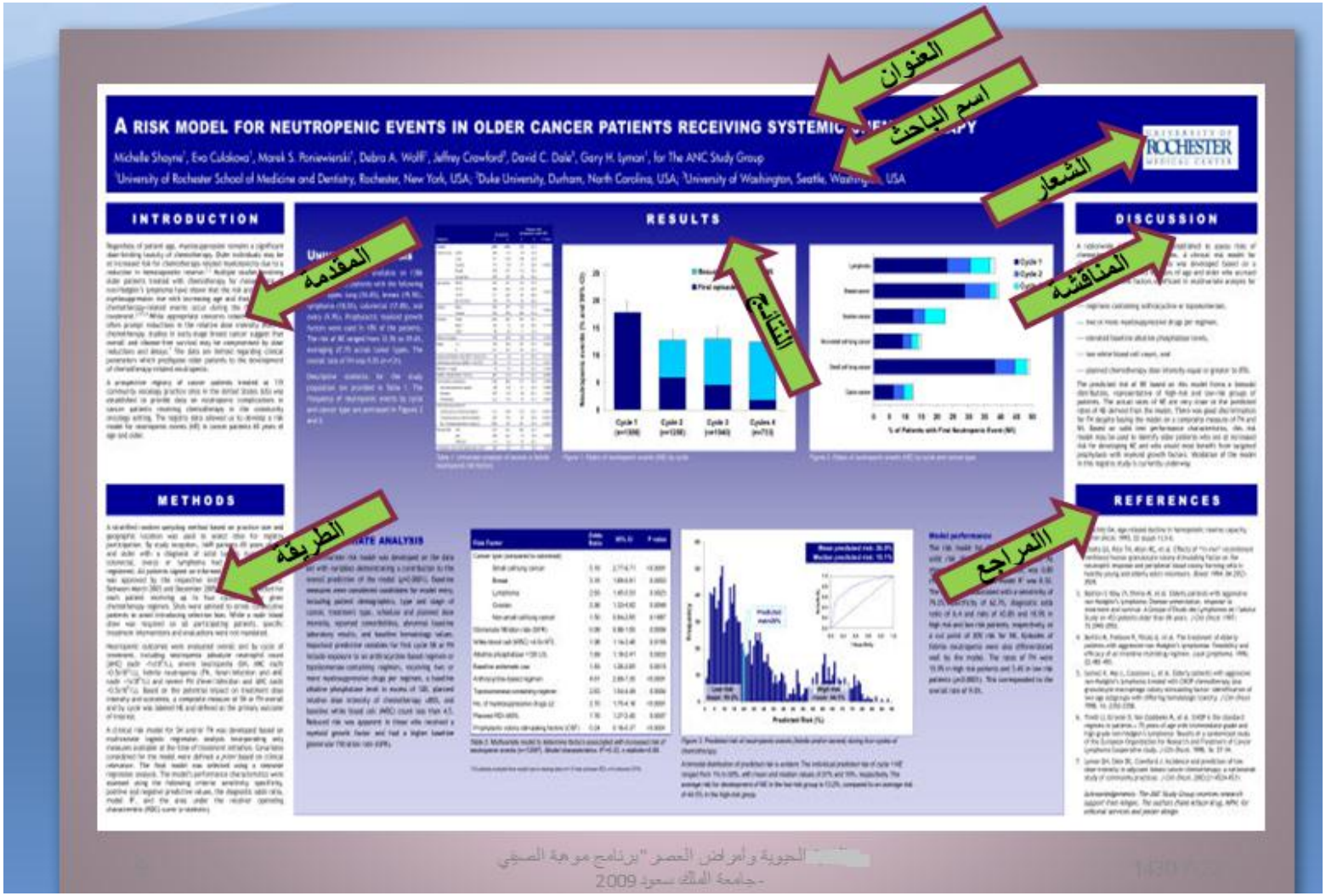
مراحل إعداد الملصق	نسبة الزمن المستغرق
فهم المطلوب وإعداد جدول زمني	٥%
كتابة الملخص)إذا كان مطلوبًا	٣٠%
تجهيز العناصر الأساسية	30 % (بعد تجهيز الملخص)
تصميم الملصق	٢٥ %
تقديم الملصق	١٠ %

المرحلة الثالثة

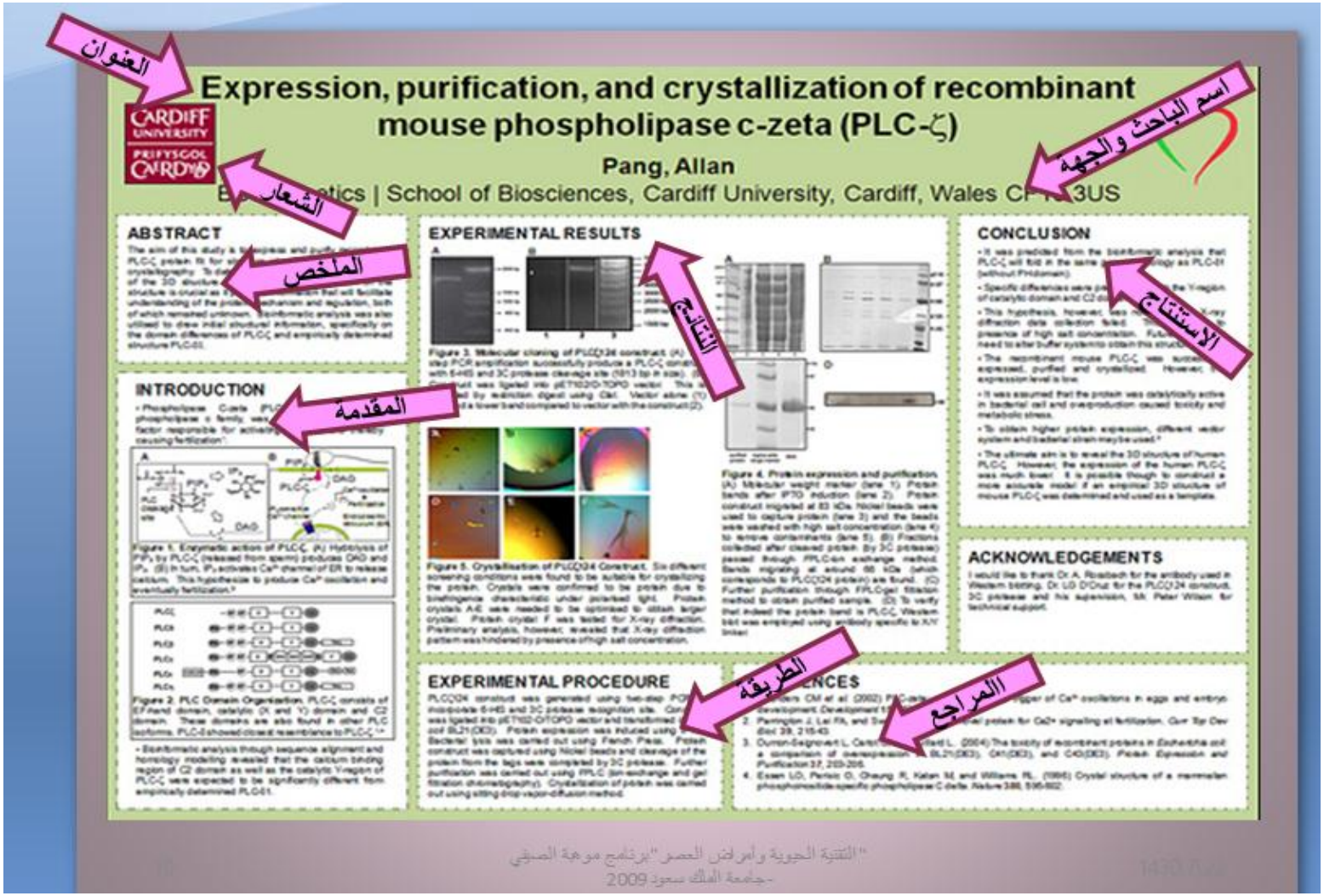
تجهيز عناصر الملصق

عناصر الملصق

عناصر الملصق

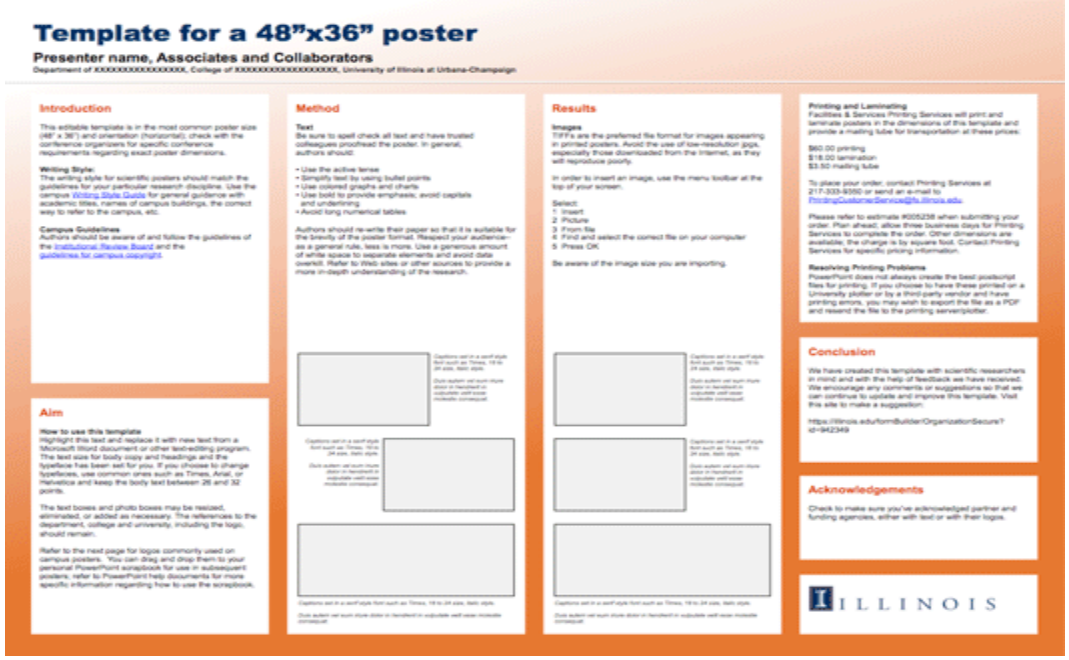


عناصر الملصق



عنوان الملصق

- واضح: صياغة صحيحة ومفهومة
- محدد: يعين نطاق البحث
- جذاب: ألفاظ منتقاة لتجلب الانتباه



الأذون

- **أخلاقيات البحث العلمي تستوجب أخذ إذن الجهات المختصة قبل القيام بأي أبحاث تتعلق ب:**
- **إجراء تجارب مختبرية على الحيوانات أو الأشخاص**
- **التعامل مع الأطفال أو من لا يملكون إعطاء إذن**
- **جمع معلومات شخصية عن أفراد دون علمهم**

المؤلفين

- **كتابة الأسماء بطريقة صحيحة**
- **الاسم الأول و الأخير و يمكن الحرف الأول من اسم الأب للأبحاث باللغة الانجليزية**
- **الترتيب مهم جدا**
- **الجهة التي يتبع لها المؤلف وبريده الإلكتروني (بريد أكاديمي) على الأقل للكاتب الرئيسي**

المحتوى

- افهمي طبيعة الحضور
- لا داعي للملخص
- بسطي الموضوع قدر الامكان
- حولي النص الى نقاط مختصره محددة ومركزة
- استخدمي أقل كميه ممكنه من النص وركزي على الرسوم

المقدمة

- **لخصي خلفية الموضوع وأهميته**
- **صيغي الخلفية باستخدام الحد الأدنى من التعاريف**
- **صيغي الأهمية على شكل سؤال أو مجموعة مركزة من الأهداف (٣)على الأكثر**

طريقة البحث

- **اذكري جميع الأدوات الرئيسية التي استخدمتيها**
- **اذكري الخطوات بشكل مختصر**
- **استخدمي الفلوتشارت و الرسوم التوضيحية عوضا عن ذكر الخطوات إن أمكن**

النتائج و المناقشه

- اعرضي أهم النتائج على شكل رسوم بيانية
- قللي الكلام المخصص للمناقشة
- استخدمي النقاط أو شرح مبسط على نفس الرسوم عوضا عن سرد النتائج

الخاتمه

- تلخيص في أقل من أربعة نقاط للأمور التالية:
- أهمية البحث
- طريقته (إذا كانت مميزة)
- خلاصة النتائج ومعناها
- الاتجاهات المستقبلية للبحث

المراجع

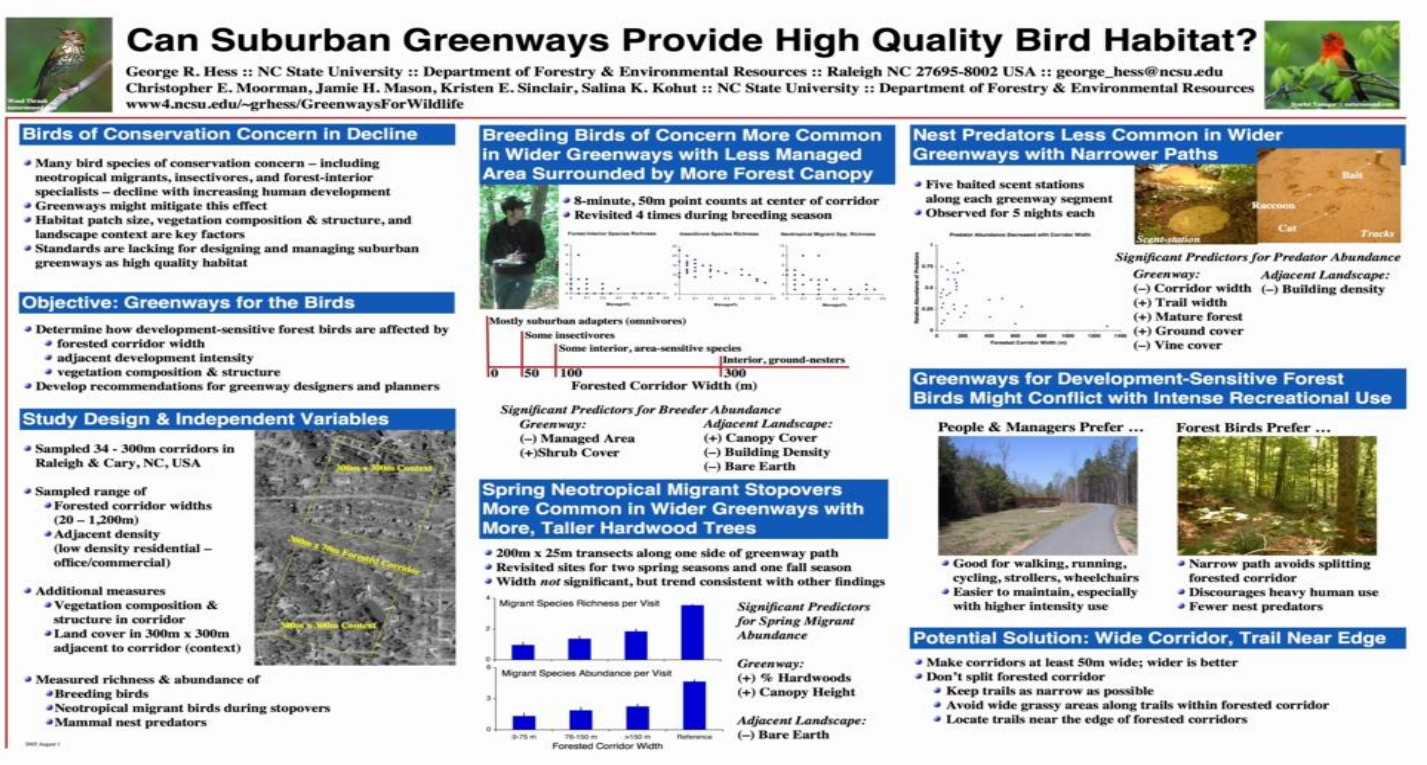
- أحد أهم عناصر البحث
- العناية بنوعيتها و صياغتها يدل على رقي البحث والباحث
- يجب تنسيقها بناء طريقة معتمدة للفهرسة
- غالبا ما يتم ذكرها في قالب الملصق أو نداء المشاركة
- هناك مواقع على الإنترنت و برامج جاهزة تدعم التنسيق التلقائي للمراجع

الشكر

- من الأخلاقيات الأكاديمية التي لايحسن إغفالها
- الجهات التي ينبغي توجيه الشكر لها
- أي جهة شاركت في تمويل البحث
- أي جهة دعمت البحث علميا
- يختلف عن الشكر الموجه في بداية الرسائل العلمية عادة والذي يكون أكثر تفصيلا ومجاملة

المرحلة الخامسة

تصميم الملصق



خصائص الملصق الجيد

- قوي وواضح التعبير
- ذو ألوان مميزة وجذابة
- يعرض المحتوى بشكل مختصر
- يعمل على جذب الانتباه
- يمكن رؤيته عن بعد بوضوح

اهم برامج تصميم الملصقات

- **هناك برامج عديدة منها:**

- PowerPoint
- PosterGenius
- Illustrator, etc.
- Graphic design tips
- Get help: hire a designer

عناصر التصميم

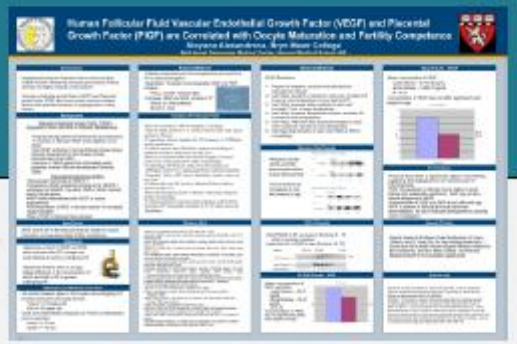
2. عدد الوحدات

الملصق متعدد الوحدات

عدة	وحدات	يتم	رصفها
بحيث	تكون	في	مجموعها
مادة	الملصق	العلمية	المطلوبة

ملصق الوحدة الواحدة

وحدة واحدة كبير الحجم
يتم طباعتها باستخدام
طابعات خاصة



المخطط العام

- المخطط العام للملصق عادة مايكون من اختيار المقدم
- يمكن أن يكون المخطط
- طولي أو عرضي
- مستوي أو مطوي الأطراف
- الأفضل أن تكون الأعمدة متساوية العرض
- اتبعي الترتيب المنطقي من اليمين لليسار (عربي) ومن الأعلى إلى أسفل
- يجب ترك مسافات فارغة كافية بين الأعمدة و كذلك بين الأجزاء الرئيسية

University
Logo
Here

YOUR TITLE GOES HERE

Names
College and Department

Program
Logo
Here

Introduction

Text goes here.

Methods

The outlines of these three text boxes can be removed by clicking on the margin of the box, selecting "Format Text Box", then select the "Colors and Lines" tab of the dialog box, and finally under "Line – Color" select "No line".

Results

Text goes here.

Conclusions

- These can be bullet points
- Another bullet point

References

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Acknowledgments

Text goes here.

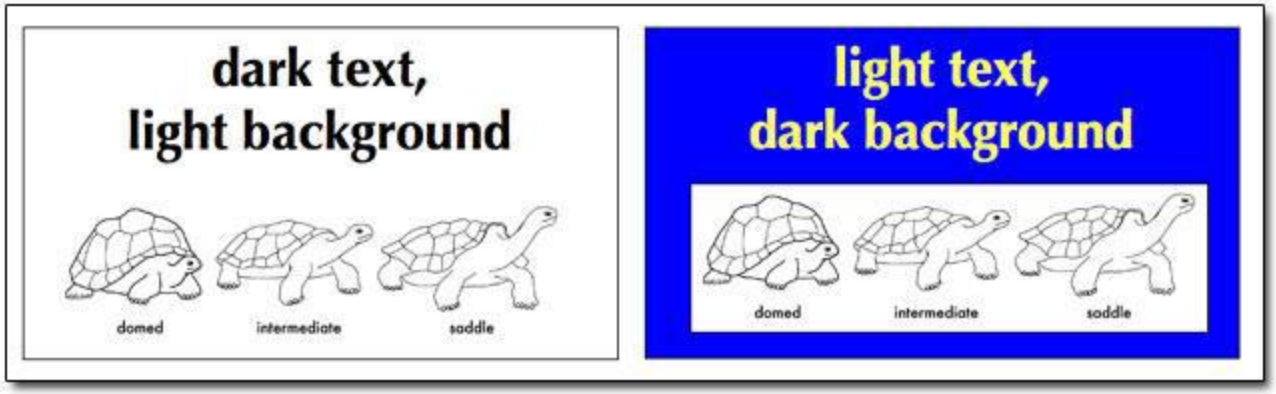
Title title title

الألوان و الخلفيات

- للألوان والخلفيات أهمية كبير في:
- جذب الانتباه للملصق
- إعطاء المظهر العام له
- وضوح المحتوى

إرشادات عامه للخلفيات

- تجنبي الخلفيات ذات النقوش أو الصور
- في المطبوعات عادة تفضل الخلفيات الفاتحة (البيضاء تحديدا) والنصوص الداكنة في مقابل العكس



إرشادات عامة للألوان

- تجني استخدام أكثر من ثلاث ألوان
- إذا استخدمنا عجلة الألوان فأي ثلاث ألوان متجاورة متناسقة وفي حالة استخدام لونين فقط نختار الألوان المتقابلة
- حددي نظام الألوان الذي ستطبقيه بناء على:
- القالب المخصص والصور الموجودة وطبيعة الموضوع
- تجنبي الألوان الصارخة والفسفورية
- تجنبي الأحمر مع الأخضر في التفاصيل المهمة

النصوص

النصوص
العنوان الرئيسي
المؤلفين
الجهة
العناوين الجانبية
عناوين الصور والرسوم
نص المحتوى
نص الصور والرسوم

حجم الخط

Text sizes:

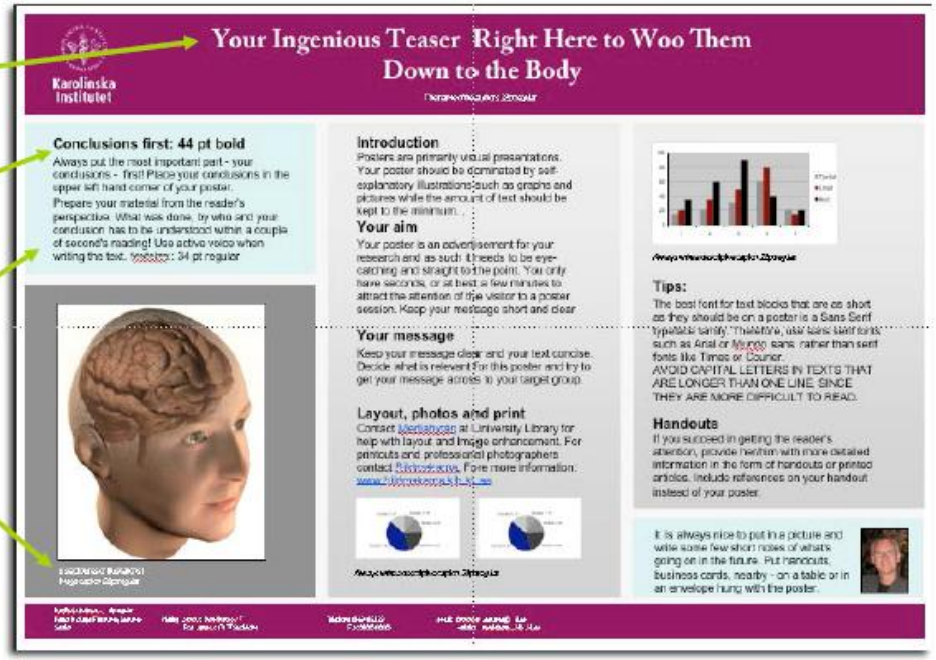
Title: 85 point

Authors: 56pt

Sub-headings: 36pt

Body text: 24pt

Captions: 18pt



إرشادات عامة في تنسيق النص

- لا ينبغي أن يزيد عدد أنواع الخطوط في الملصق عن ثلاثة
- قللي النص واجعليه على هيئة نقاط قدر الإمكان
- ينبغي أن لا يزيد طول أي فقرة أو نقطة عن ثلاثة أسطر
- ضعي هيكلية واضحة من خلال استخدام مستويات مختلفة
- للخطوط
- كلما قل النص وكبر حجمه كلما كان الملصق أجود
- ضعي كل عنوان مع نصه في جزئية منفصلة
- يمكن إرفاق نشرات إذا أردت إضافة تفاصيل أخرى

إرشادات عامة للصور والرسوم

- **استخدمي الرسوم عوضا عن النصوص ما أمكن**
- **لا تقحمي أي رسم غير ضروري**
- **قللي التفاصيل في الصورة أو الرسم**
- **استخدم امتداد الصور tiff, png لأنها أوضح في الطباعة**
- **تمرسي على تحرير الصور لإلغاء التفاصيل أو تغيير الألوان**
- **لا تترددي في الاستغناء عن أي رسم يفقد جودته مكبرا**
- **وزعي الصور والرسوم على الملصق بشكل مريح للنظر**
- **ضعي عناوين للصور والرسومات**

إرشادات لتصميم الرسوم البيانية

- **احرصي أن تكون جميع نصوص الرسوم مقروءة من مسافة كافية**
- **لا تغفلي العنوان و تسمية المحاور والوحدات**
- **تجنبي التفاصيل مثل الخلفيات وخطوط الشبكة**
- **اختاري الرسم البياني المناسب لطبيعة المعلومات**
- **بسطي الرسم ليعرض فكرة واحدة**
- **تجنبي الرسوم ثلاثية الأبعاد**

المرحلة السادسة

طباعة الملصق

ارشادات الطباعه

- **احفظي الملف بصيغة:**
- png /tiff /pdf
- **اتركي الملصق فترة كافية ليجف الحبر**
- **اختاري الورق بعناية:**
- **ورق لماع أو مطفي**

نوع الورق

لامع

- الإيجابيات
  - ألوان جذابة ونابضة بالحياة
  - صور لامعة وواضحة
- السلبيات:
  - عرضة للاتساخ.
  - له وهج ايصّعب الرؤية
  - أقل مهنية

مطفي

- الايجابيات :
  - أقل عرضة للاتساخ
  - أكثر مهنية
  - لا يوجد وهج
- السلبيات :
  - تبدو الصور أقل وضوحا
  - الألوان أقل جاذبية

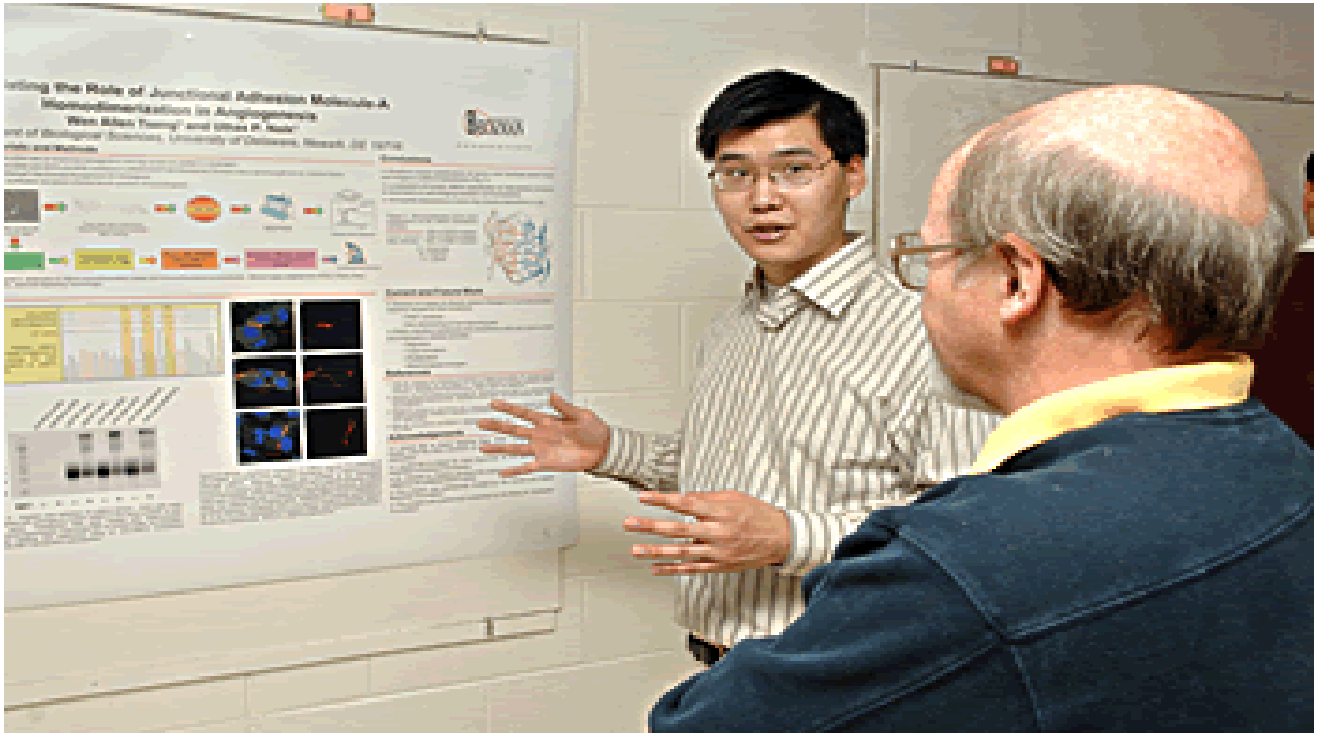
حفظ الملصق

- الأفضل حفظ الملصق في العلب الأسطوانية المخصصة لذلك ليعيش زمنا أطول

- استخدام المطاطات أو الحقائب المكشوفة يؤدي إلى تجعد الملصق وتمزق أطرافه

المرحلة السابعة

تقديم الملصق



الاستعداد للتقديم

- انتبهي لما تأكلين وتشربين منذ الصباح
- اذهبي إلى المكان مبكرة لإتمام التسجيل واستلام البطاقة
- توجهي مباشرة إلى مكان العرض و اختاري موقع مناسب
- اصطحبي معك كمية من الدبابيس و الأقلام و اللصق والبلوتك
- من الأفضل ارتداء بطاقة عليها اسمك وعادة تسلم لك عند التسجيل
- جهزي عدد كافيا من بطاقات الأعمال
- ارتدي ملابس رسمية وحذاء رسمي مريح ولا تبالغي في أناقتك

إرشادات عامة اثناء التقديم

- **كوني قريبة دائما من ملصقك**
- **لاتبدئي بشرح الملصق إلا إذا بدأ الشخص بالسؤال أو لاحظت فضوله**
- **ابدئي بالنقاط المثيرة مثلا نتيجة غير متوقعة أو هدف مهم ثم أكملي إذا لاحظت اهتمام الشخص**
- **تجنبي التفاصيل والمصطلحات المتخصصة لغير المختص فهي منفرة**
- **انظري في عيني من يحدثك**
- **لا تترددي في قول لا أعرف بلباقة إذا لم تكن لديك إجابة**
- **تجنبي توجيه الأسئلة إلى الزوار**

إرشادات عامة اثناء التقديم

- لا تضعي يديك في جيبك أو على خصرك أو تعقديها تحت صدرك
- إذا انضمت مجموعة لملصقك بعد أن تكوني بدأت الشرح
- لشخص فأكملي ما بدأته أولا
- إذا مر شخص وقال ملصق جميل وسأعود لاحقا فاعرفي أنه غيرمهتم بالملصق فاشكريه بابتسامة
- لا داعي للنظارة الشمسية أو الكاب أثناء العرض ولا العطر قوي الرائحة
- تجنبي توزيع الأطعمة والمشروبات

المرحلة الثامنة

تقييم الملصق

معايير التقييم

معايير علمية

- وحدة المحتوى العلمي
- دقة المحتوى العلمي
- مصداقية المعلومات

معايير فنية

- الشكل العام
- وضوح العرض
- الإخراج الفني
- جودة الخامات

تقيم الملصق

نموذج تقييم ملصق علمي

عنوان الملصق: .....

اسماء الباحثين: .....

اسم المقيّم: .....

المقياس:

الدرجة	٤	٣	٢	١
التقدير	ممتاز	جيد جدا	جيد	غير مرضي

التقييم:

عنصر التصميم	الملاحظات	التقييم
المخطط		
المظهر:		
هل يبدو الملصق مرتب بشكل جيد ؟		
هل النصوص والصور واضحة من حيث الحجم والألوان ؟		
هل هناك توافق وانسجام في استخدام النصوص والصور؟		
الدرجة		/٤
الأقسام:		
هل يوجد عنوان واضح لكل قسم ؟		
هل هناك مسافات كافية بين الأقسام ؟		
هل تسلسل الأقسام منطقي ؟		
الدرجة		/٤
التوازن:		
هل هناك انسجام بين توزيع النصوص والصور؟		

عنصر التصميم	الملاحظات	التقييم
المحتوى		
العنوان:		
هل هو واضح ومحدد ويعبر عن الموضوع ؟		
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Did the poster contain interesting new data or ideas?	1	2	3	4	5
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قيمي الملصقات المرفقة

PIGS IN SPACE: EFFECT OF ZERO GRAVITY AND AD LIBITUM FEEDING ON WEIGHT GAIN IN CAVIA PORCELLUS

Colin B. Purrington
6673 College Avenue, Swarthmore, PA 19081 USA

ABSTRACT:

One ignored benefit of space travel is a potential elimination of obesity, a chronic problem for a growing majority in many parts of the world. In theory, when an individual is in a condition of zero gravity, weight is eliminated. Indeed, in space one could conceivably follow ad libitum feeding and never even gain an gram, and the only side effect would be the need to upgrade one's stretchy pants("exercise pants"). But because many diet schemes start as very good theories only to be found to be rather harmful, we tested our predictions with a long-term experiment in a colony of Guinea pigs (Cavia porcellus) maintained on the International Space Station. Individuals were housed separately and given unlimited amounts of high-calorie food pellets. Fresh fruits and vegetables were not available in space so were not offered. Every 30 days, each Guinea pig was weighed. After 5 years, we found that individuals, on average, weighed nothing. In addition to weighing nothing, no weight appeared to be gained over the duration of the protocol. If space continues to be gravity-free, and we believe that assumption is sound, we believe that sending the overweight — and those at risk for overweight — to space would be a lasting cure.

INTRODUCTION:

The current obesity epidemic started in the early 1960s with the invention and proliferation of elastane and related stretchy fibers, which released wearers from the rigid constraints of clothes and permitted monthly weight gain without the need to buy new outfits. Indeed, exercise today for hundreds of million people involve only the act of wearing stretchy pants in public, presumably because the constrictive pressure forces fat molecules to adopt a more compact tertiary structure (Xavier 1965).

Luckily, at the same time that fabrics became stretchy, the race to the moon between the United States and Russia yielded a useful fact: gravity in outer space is minimal to nonexistent. When gravity is zero, objects cease to have weight. Indeed, early astronauts and cosmonauts had to secure themselves to their ships with seat belts and sticky boots. The potential application to weight loss was noted immediately, but at the time travel to space was prohibitively expensive and thus the issue was not seriously pursued. Now, however, multiple companies are developing cheap extra-orbital travel options for normal consumers, and potential travelers are also creating news ways to pay for products and services that they cannot actually afford. Together, these factors open the possibility that moving to space could cure overweight syndrome quickly and permanently for a large number of humans.

We studied this potential by following weight gain in Guinea pigs, known on Earth as fond of ad libitum feeding. Guinea pigs were long envisioned to be the "Guinea pigs" of space research, too, so they seemed like the obvious choice. Studies on humans are of course desirable, but we feel this current study will be critical in acquiring the attention of granting agencies.

MATERIALS AND METHODS:

One hundred male and one hundred female Guinea pigs (Cavia porcellus) were transported to the International Space Laboratory in 2010. Each pig was housed separately and deprived of exercise wheels and fresh fruits and vegetables for 48 months. Each month, pigs were individually weighed by duct-taping them to an electronic balance sensitive to 0.0001 grams. Back on Earth, an identical cohort was similarly maintained and weighed. Data was analyzed by statistics.

RESULTS:

Mean weight of pigs in space was 0.0000 +/- 0.0002 g. Some individuals weighed less than zero, some more, but these variations were due to reaction to the duct tape, we believe, which caused them to be alarmed push briefly against the force plate in the balance. Individuals on the Earth, the control cohort, gained about 240 g/month ($p = 0.0002$). Males and females gained a similar amount of weight on Earth (no main of effect of sex), and size at any point during the study was related to starting size (which was used as a covariate in the ANCOVA). Both Earth and space pigs developed substantial dewlaps (double chins) and were lethargic at the conclusion of the study.

CONCLUSIONS:

Our view that weight and weight gain would be zero in space was confirmed. Although we have not replicated this experiment on larger animals or primates, we are confident that our result would be mirrored in other model organisms. We are currently in the process of obtaining necessary human trial permissions, and should have our planned experiment initiated within 80 years, pending expedited review by local and Federal IRBs.

ACKNOWLEDGEMENTS:

I am grateful for generous support from the National Research Foundation, Black Hole Diet Plans, and the High Fructose Sugar Association. Transport flights were funded by SPACE-EXES, the consortium of wives divorced from insanely wealthy space-flight startups. I am also grateful for comments on early drafts by Mañana Athletic Club, Corpus Christi, USA. Finally, sincere thanks to the Cuy Foundation for generously donating animal care after the conclusion of the study.

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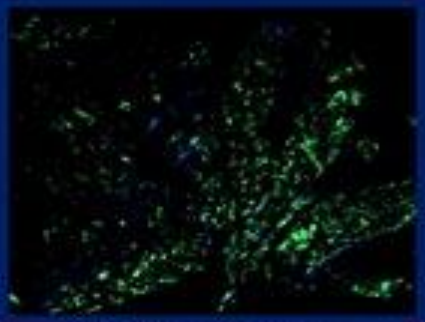

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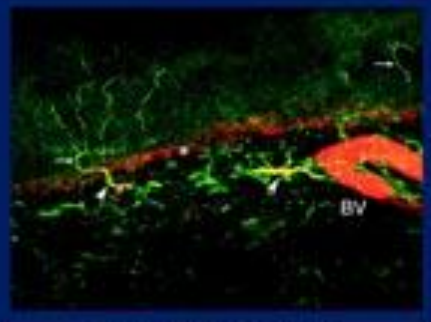

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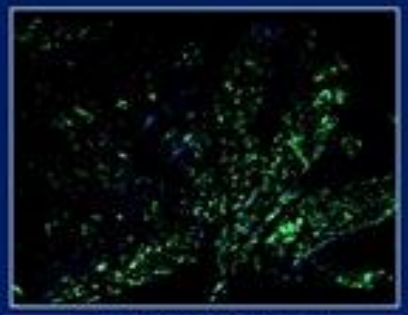

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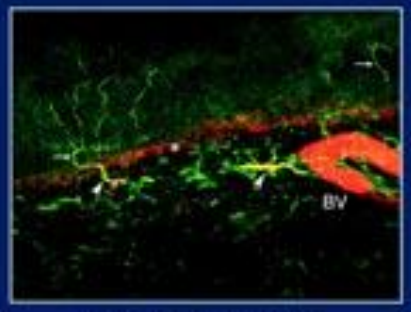

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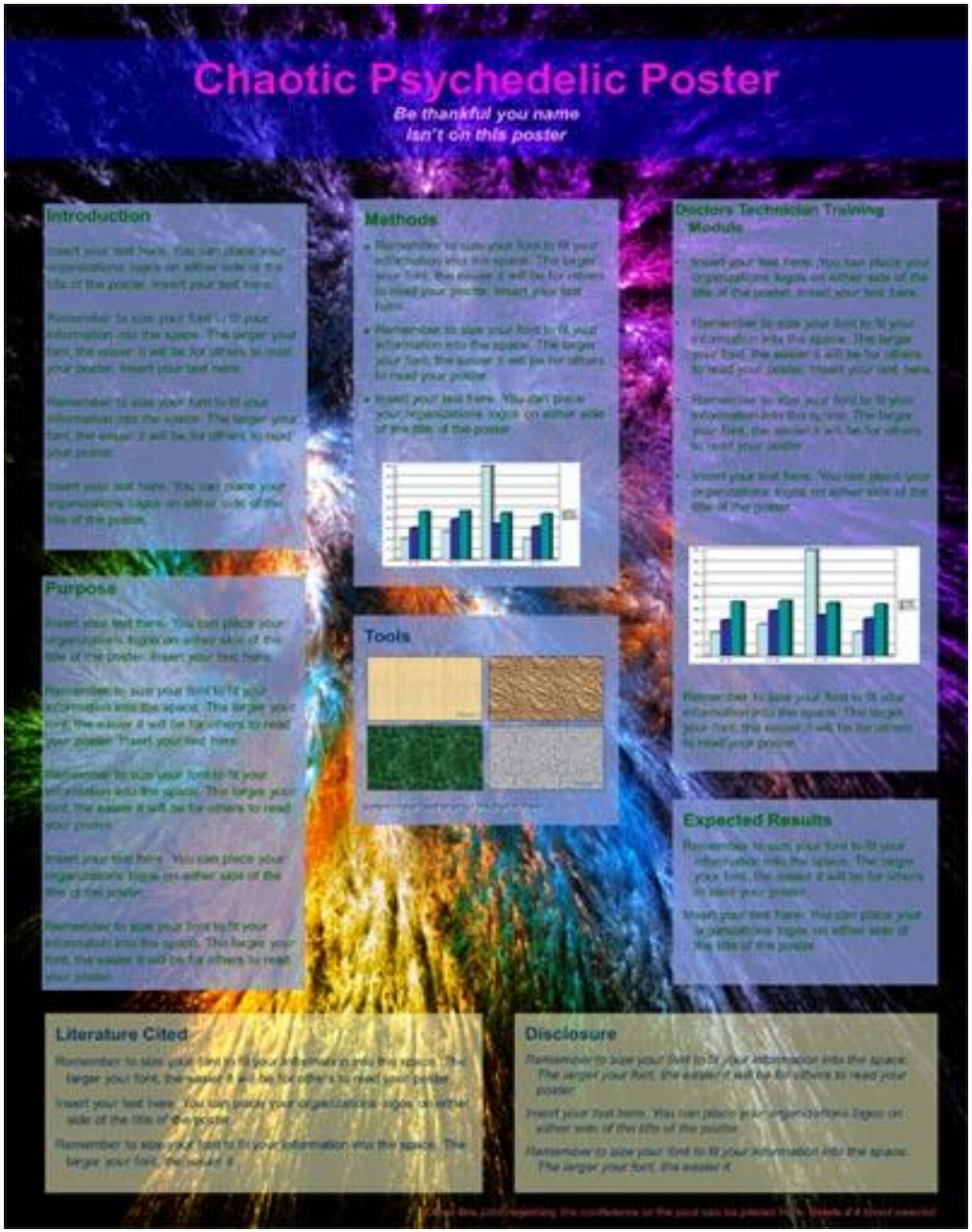

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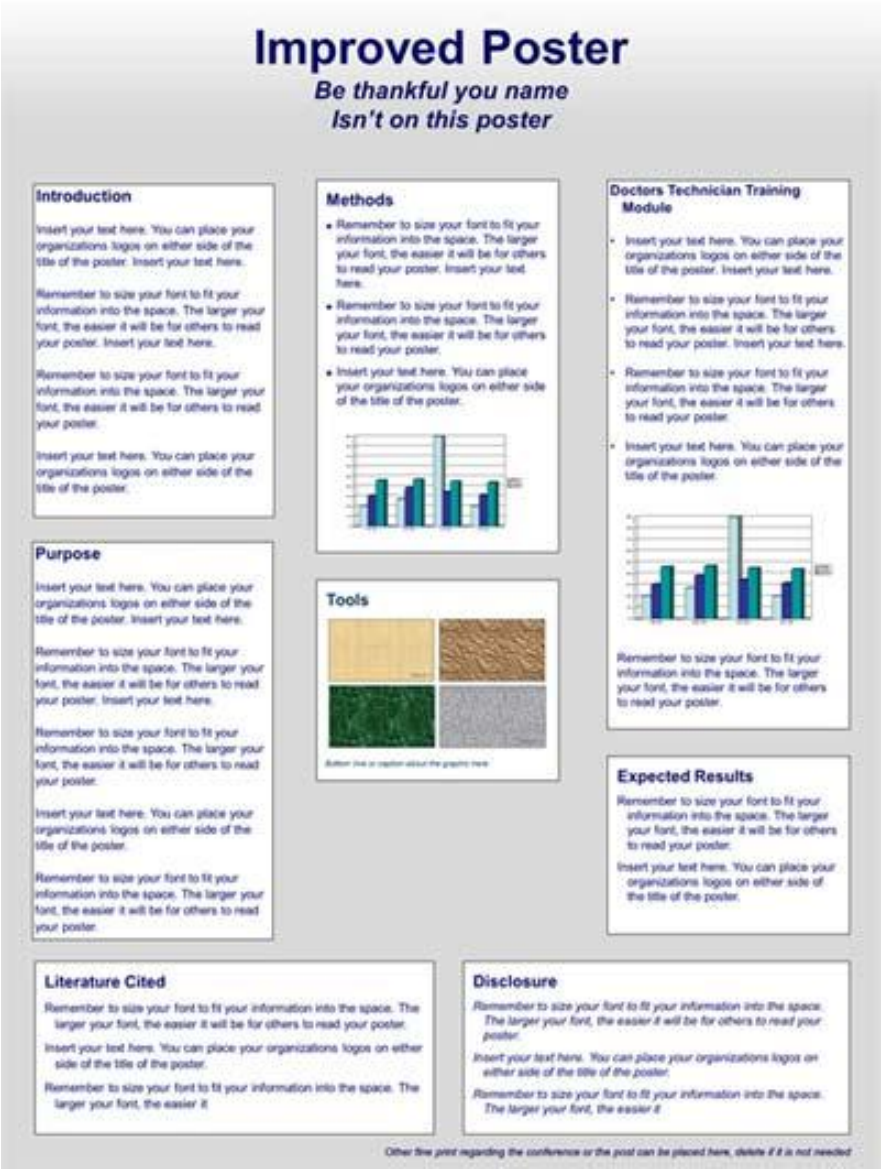

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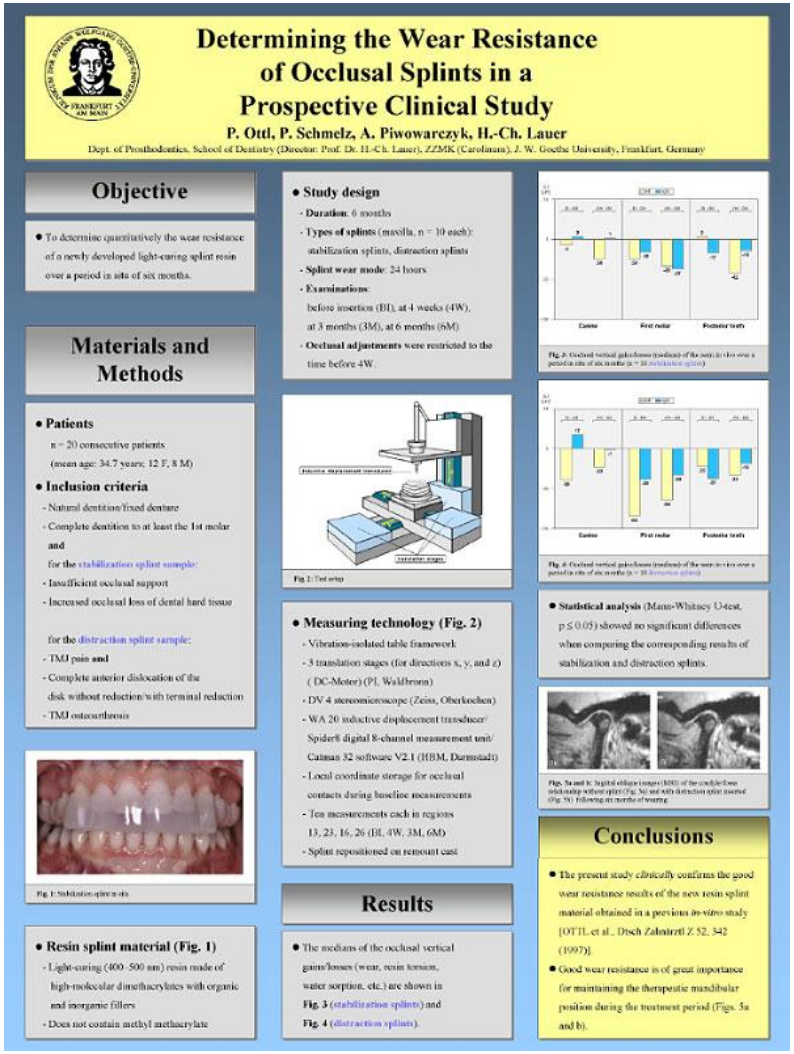


Determining the Wear Resistance of Occlusal Splints in a Prospective Clinical Study

P. Ottl, P. Schmelz, A. Piwowarczyk, H.-Ch. Lauer
Dept. of Prosthodontics, School of Dentistry (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 pain **and**
  - Complete anterior dislocation of the disk without reduction/with terminal reduction
  - TMJ osteoarthrosis

Fig. 1: Stabilization splint in situ

- **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 methacrylate

- **Study design**
  - **Duration**: 6 months
  - **Types of splints** (maxilla, 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: Test setup

- **Measuring technology (Fig. 2)**
  - Vibration-isolated table framework
  - 3 translation stages (for directions x, y, and z) (DC-Meter) (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 (BI, 4W, 3M, 6M)
  - Splint repositioned on remount cast

Results

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

Fig. 3: Occlusal vertical gains/losses (medians) of the teeth in situ over a period in situ of six months (n = 10 stabilization splints)

Fig. 4: Occlusal vertical gains/losses (medians) of the teeth in situ over a period in situ of six months (n = 10 distraction splints)

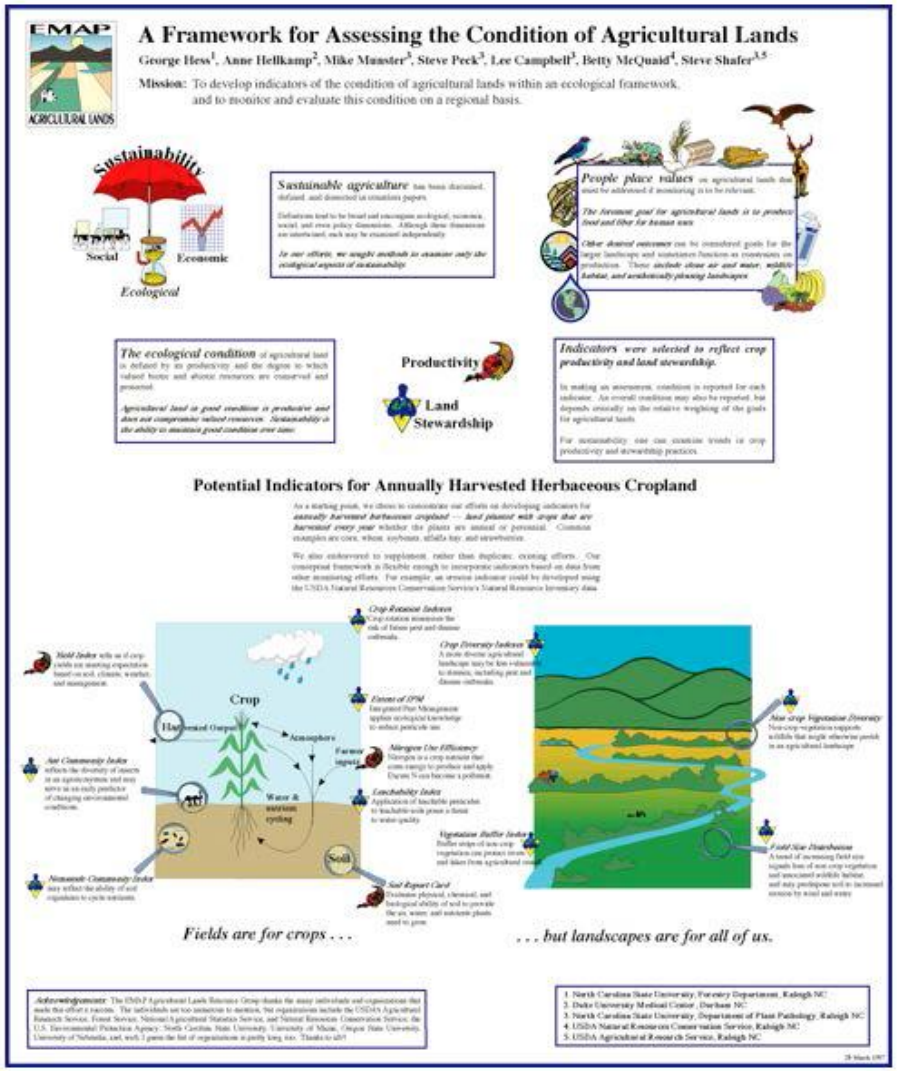
- **Statistical analysis** (Mann-Whitney U-test, $p \leq 0.05$) showed no significant differences when comparing the corresponding results of stabilization and distraction splints.

Figs. 5a and b: Sagittal oblique images (MRI) of the condyle/fossa relationship without splint (Fig. 5a) and with distraction splint inserted (Fig. 5b). Following six months of wearing

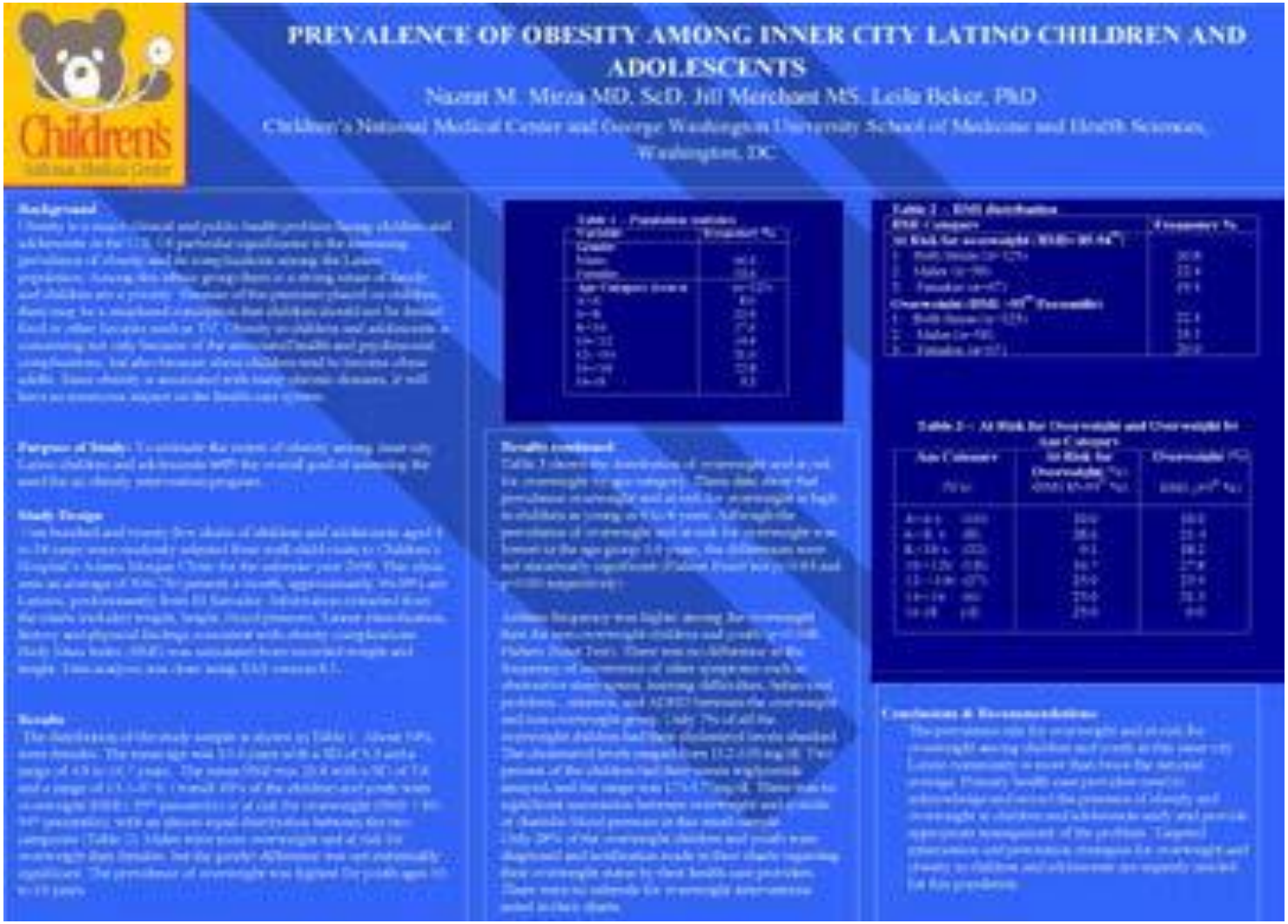
Conclusions

- The present study *clinically* confirms the good wear resistance results of the new resin splint material obtained in a previous *in-vitro* study [OTTL et al., Dtsch Zahnärztl 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).

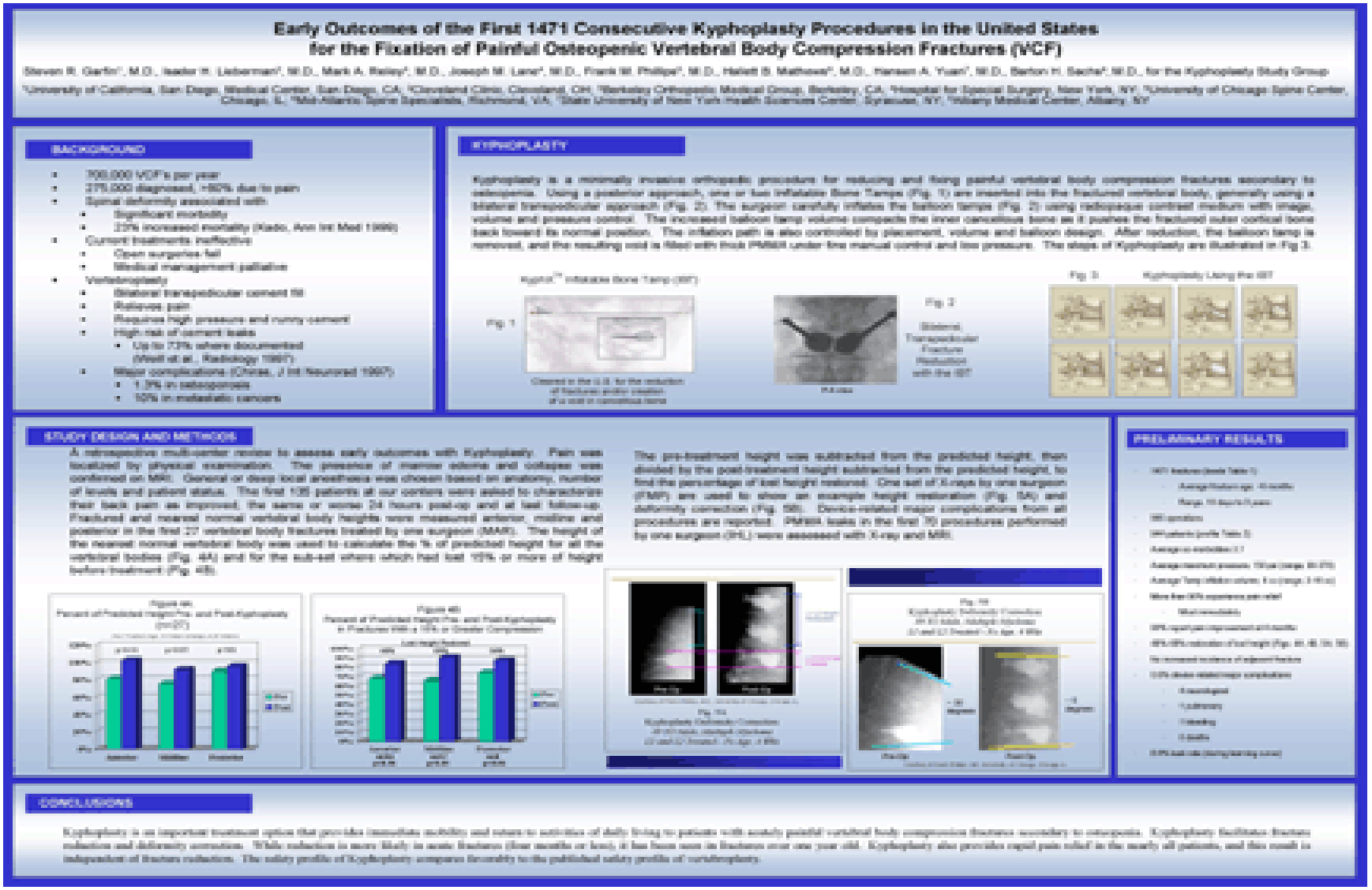
Nice poster



Where do I begin?



I am feeling sleepy



OK, but
which way
do I go?

A Large-Scale Public Library Renovation in Taiwan

A Large-Scale Public Library Renovation in Taiwan

Library Association of R.O.C.
National Tsoching Library of Taiwan

ABSTRACT

There are 535 public libraries, including [illegible] county, and village public libraries, in Taiwan. As most of them were built in 1980s, they are not fit in the digital environment to meet users' needs.

In order to upgrade the quality of public library services in Taiwan to meet users needs and to fulfill lifelong learning, in 2003, the central government of Taiwan approved a budget of NT$1.2 billion (US$ 4 million) as a large-scale public library renovation project in 301 public libraries.

National Tsoching Library was designated as coordinate library to execute the project from February 2003 to June 2004. 301 public libraries were divided into eight groups according to the geographical area, and a steering committee was formed, consisting 96 committee members from the fields of library and information science, architecture, space design, literature, and history. 96 committee members were assigned to one of eight groups of 301 public libraries to help and to give suggestions of renovation, improvement, replacement, service programs of each library.

The project was executed and completed efficiently and effectively in June 2004. This poster presentation will display the results of the renovation, improvement, replacement, library management, and services of 301 public libraries in Taiwan. The contents of the posters will be explained by words, pictures, and statistical tables.

Keyword: Public libraries.

http://www.ntl.gov.tw

www.ntl.gov.tw

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

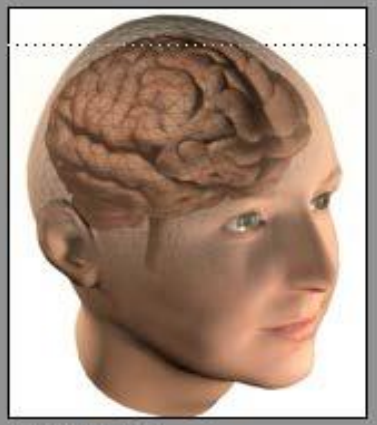
Karolinska Institutet

The name of the author: 22pt regular

Conclusions first: 44 pt bold

Always put the most important part - your conclusions - first! Place your conclusions in the upper left hand corner 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. textsize:: 34 pt regular



Use pictures or illustrations! Image caption 22pt regular

Introduction

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

Your aim

Your poster is an advertisement for your research and as such it needs to be eye-catching 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

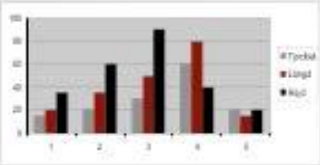
Your message

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

Contact Mediahyran at University Library for help with layout and Image enhancement. For printouts and professional photographers contact Bildmakarna. Fore more information: www.bildmakarna.kib.ki.se

Always write a descriptive caption 22pt regular



Always write a descriptive caption 22pt regular

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 Mundo 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.

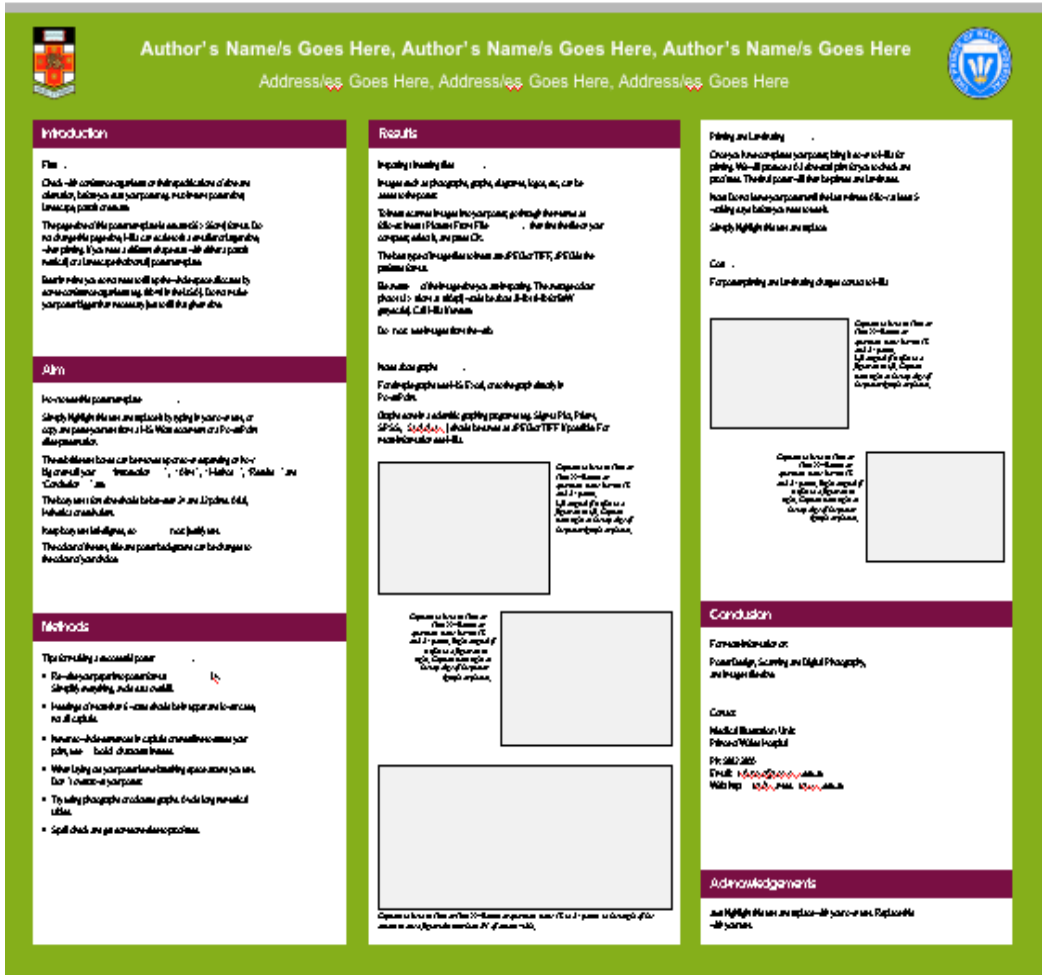
Handouts

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.

Karolinska Institutet, 171 77 Stockholm
Telephone 08-524 81 00
Fax: 08-000 00 00

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



Will Manatees Still Exist in 2100?

Effect of Cold Winters and Watercraft Accidents

Jun Yoshizaki, Biomathematics Program, North Carolina State University, Raleigh, NC 27695
Email: jyoshiz@unity.ncsu.edu

1. Introduction

In Florida, the populations of West Indian Manatees, listed as endangered species in 1967, appear to be growing in recent years. At the same time, the total number of manatee deaths is increasing rapidly. Therefore, it has became more important to evaluate the long-term viability of the populations. I hypothesized that cold stress due to cold winters and accidents with watercrafts cause additional mortality, and examined the population trends during the next 100 years.

2. Objectives

- Simulate manatee population trends during the next 100 years under the assumptions that there is additional mortality due to
  1) cold stress only (temperature effect)
  2) accidents with watercrafts only (boat effect)
  3) both cold stress and accidents (combined effect)
- Investigate the relationship between the mean number of deaths due to watercraft accidents in each year and the probability of extinction within the next 100 years

3. Methods

- Model type: modified age based matrix model of female manatees
- Initial population size = 1600
- Mean boat collision deaths / year = 68 individuals
- Draw minimum temperature and the number of boat collision deaths in each year randomly from normal distribution
- Simulated 100 times for each model

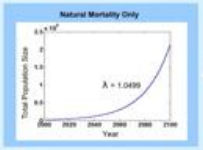
Basic Model Structure

$$\begin{pmatrix} N_0 \\ N_1 \\ N_2 \\ N_3 \\ N_4 \\ N_a \end{pmatrix}_{t+1} = \begin{pmatrix} 0 & 0 & 0 & 0 & 0 & f_a \\ S_1 & 0 & 0 & 0 & 0 & 0 \\ 0 & S_2 & 0 & 0 & 0 & 0 \\ 0 & 0 & S_3 & 0 & 0 & 0 \\ 0 & 0 & 0 & S_4 & 0 & 0 \\ 0 & 0 & 0 & 0 & S_5 & S_a \end{pmatrix}_t \begin{pmatrix} N_0 \\ N_1 \\ N_2 \\ N_3 \\ N_4 \\ N_a \end{pmatrix}_t - \begin{pmatrix} B_0 \\ B_1 \\ B_2 \\ B_3 \\ B_4 \\ B_a \end{pmatrix}_t$$

where N = population size
f = fecundity
S = survival probability
= 1 – (natural mortality + additional mortality)
B = # of boat accident deaths

4. Results: Graphs of Population Trends

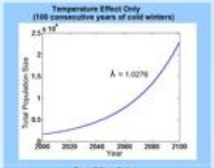
Model 1: No effect (natural mortality only)



Without additional mortality, the manatee population keeps growing

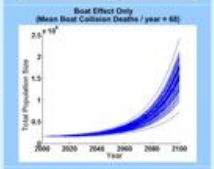
Model 2: Temperature effect

Even 100 years of consecutive cold winters do not cause the manatee population to decline



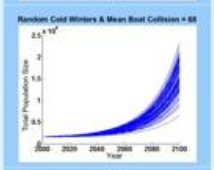
Model 3: Boat effect

A mean of 68 boat collision deaths / year causes slower population growth, but the population size still increases



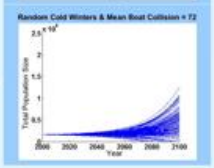
Model 4: Combined effect

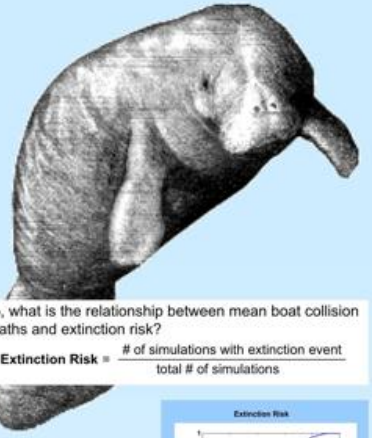
Assuming randomly occurring cold winters and a mean of 68 boat collision deaths / year, population growth became even slower, but the population size still increases



BUT.....

If the mean number of boat collision deaths / year becomes 72, there is a chance that the population will become extinct

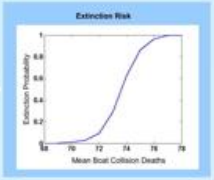




So, what is the relationship between mean boat collision deaths and extinction risk?

$$\textbf{Extinction Risk} = \frac{\text{\# of simulations with extinction event}}{\text{total \# of simulations}}$$

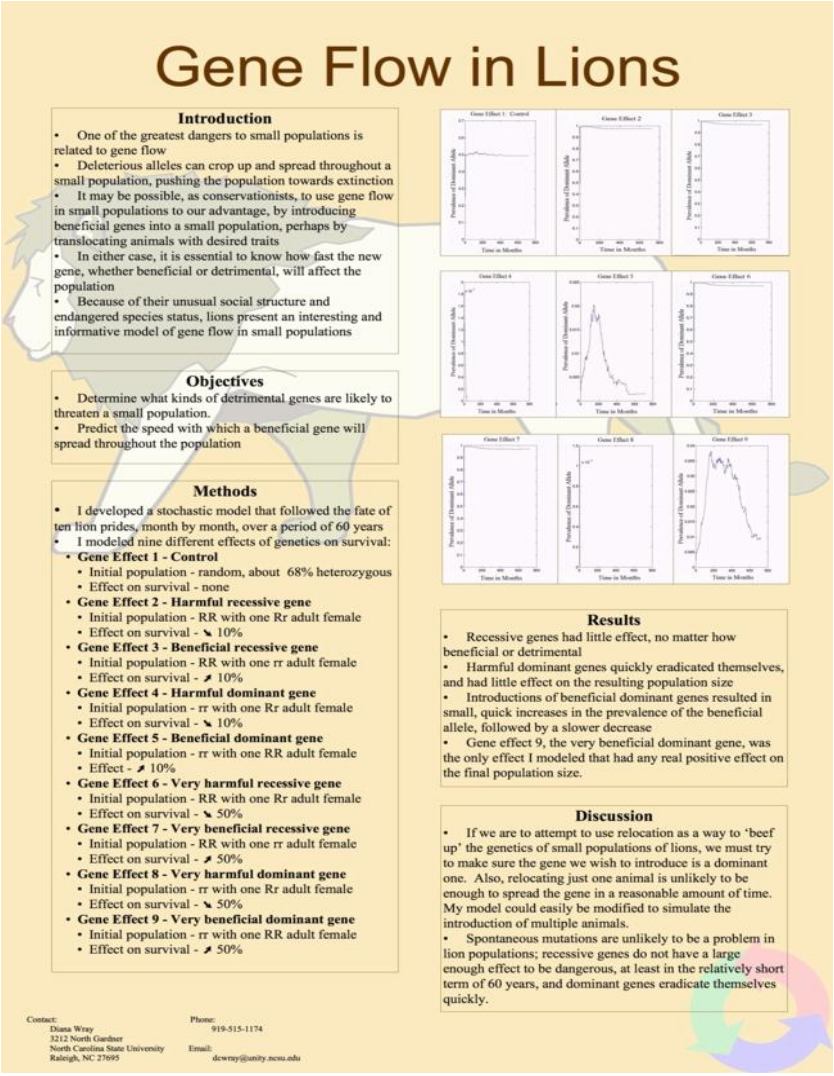
The extinction risk increases rapidly when the mean accident deaths / year exceeds 72



5. Discussion

- **Cold winters did not cause the manatee population to decline.** This result can be expected because there are thermal refuges during winter (e.g. power plant warm-water discharges) therefore, the mortality due to cold winters was very low. Developing a model that includes the effect of winter refuge loss could be interesting in future studies.
- **Current average boat collision deaths (i.e. 68 deaths / year) slowed population growth** however, did not cause the manatee population to decline.
- **Population growth became even slower when the effects were combined** (i.e. randomly occurring cold winters and mean boat collision deaths / year = 68) however, the population was still growing.
- **Increase in the mean boat collision deaths (even by a small number) could be a serious problem**. For a mean >= 78, the extinction probability became 1. The records show that the deaths due to accidents increased rapidly during last 5 years, therefore understanding the current situation of boat collision deaths is important to maintain manatee populations.

.Author information should be larger•
•Large image of manatee is low-resolution and heavily pixelated on full-size poster .
•Graph fnts are too small.



Gene Flow in Lions

Introduction

- One of the greatest dangers to small populations is related to gene flow
- Deleterious alleles can crop up and spread throughout a small population, pushing the population towards extinction
- It may be possible, as conservationists, to use gene flow in small populations to our advantage, by introducing beneficial genes into a small population, perhaps by translocating animals with desired traits
- In either case, it is essential to know how fast the new gene, whether beneficial or detrimental, will affect the population
- Because of their unusual social structure and endangered species status, lions present an interesting and informative model of gene flow in small populations

Objectives

- Determine what kinds of detrimental genes are likely to threaten a small population.
- Predict the speed with which a beneficial gene will spread throughout the population

Methods

- I developed a stochastic model that followed the fate of ten lion prides, month by month, over a period of 60 years
- I modeled nine different effects of genetics on survival:
  - **Gene Effect 1 - Control**
    - Initial population - random, about 68% heterozygous
    - Effect on survival - none
  - **Gene Effect 2 - Harmful recessive gene**
    - Initial population - RR with one Rr adult female
    - Effect on survival - ↘ 10%
  - **Gene Effect 3 - Beneficial recessive gene**
    - Initial population - RR with one rr adult female
    - Effect on survival - ↗ 10%
  - **Gene Effect 4 - Harmful dominant gene**
    - Initial population - rr with one Rr adult female
    - Effect on survival - ↘ 10%
  - **Gene Effect 5 - Beneficial dominant gene**
    - Initial population - rr with one RR adult female
    - Effect - ↗ 10%
  - **Gene Effect 6 - Very harmful recessive gene**
    - Initial population - RR with one Rr adult female
    - Effect on survival - ↘ 50%
  - **Gene Effect 7 - Very beneficial recessive gene**
    - Initial population - RR with one rr adult female
    - Effect on survival - ↗ 50%
  - **Gene Effect 8 - Very harmful dominant gene**
    - Initial population - rr with one Rr adult female
    - Effect on survival - ↘ 50%
  - **Gene Effect 9 - Very beneficial dominant gene**
    - Initial population - rr with one RR adult female
    - Effect on survival - ↗ 50%

Results

- Recessive genes had little effect, no matter how beneficial or detrimental
- Harmful dominant genes quickly eradicated themselves, and had little effect on the resulting population size
- Introductions of beneficial dominant genes resulted in small, quick increases in the prevalence of the beneficial allele, followed by a slower decrease
- Gene effect 9, the very beneficial dominant gene, was the only effect I modeled that had any real positive effect on the final population size.

Discussion

- If we are to attempt to use relocation as a way to 'beef up' the genetics of small populations of lions, we must try to make sure the gene we wish to introduce is a dominant one. Also, relocating just one animal is unlikely to be enough to spread the gene in a reasonable amount of time. My model could easily be modified to simulate the introduction of multiple animals.
- Spontaneous mutations are unlikely to be a problem in lion populations; recessive genes do not have a large enough effect to be dangerous, at least in the relatively short term of 60 years, and dominant genes eradicate themselves quickly.

Contact:
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- Poster seems a bit text heavy and unbalanced (all figures in upper right).
- Hard to read text over the lion graphic
- Title is not very informative

DOs and DON’Ts

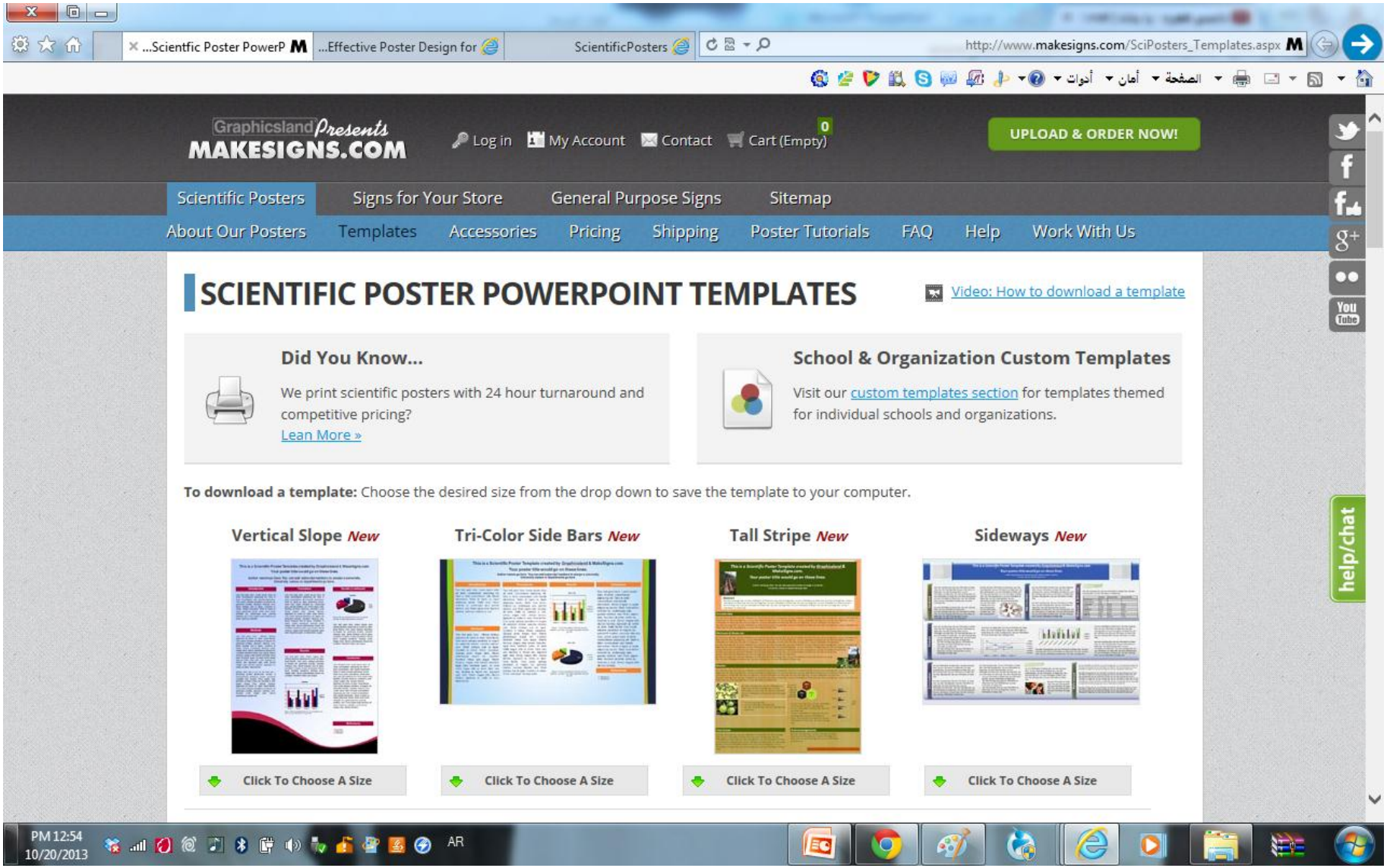
- http://www.ncsu.edu/project/posters/Videos.html
- http://colinpurrington.com/tips/academic/posterdesign

إرشادات الملصقات (Posters) في البحوث العلمية

- تُعرَض الملصقات في المعرض المصاحب للمؤتمر ، **مع ضرورة حضور المشارك بجانب ملصقه خلال الأوقات المحددة للتحكيم بحسب برنامج المؤتمر** ، ويراعى في إعداد الملصق ما يأتي :
- احتواؤه على عنوان البحث ، واسم المشارك أو أسماء المشاركين ، والجامعة التي ينتسب إليها ، ووضع شعار الوزارة في أعلى الملصق من الجهة اليمنى ، وشعار المؤتمر من الجهة اليسرى (ملاحظة : يمكن تحميل الشعارات عبر هذا الرابط) .
- احتواؤه على العناصر المهمة مثل : المقدمة ، ومشكلة الدراسة ، وأهدافها ، والمجالات الرئيسة ، والمنهجية المتبعة في البحث ، والمناقشة ، والنتائج ، والتوصيات ، والمصادر .

- إيجاز المعلومات بحيث تكون مكثّفة مركزة تغطي جميع جوانب البحث .
- اختيار عناوين موجزة للأشكال والجداول .
- وضوح الكتابة على الملصق بحيث يمكن قراءتها من مسافة لا تقل عن مترين .
- يحبذ وضع البريد الالكتروني للباحث لتواصل المهتمين بموضوع البحث .

- طباعة الملصق طولياً ، بمقاس طول ١٠٠ سم ، وعرض ٧٠ سم ، ولا تقبل الملصقات العرضية ، أو التي تختلف مقاساتها عن المقاسات الموضحة .
- يجب على الطالب أن يصمم الملصق ، ويطبعه ، ويسلمه في **حافظته الاسطوانية** إلى منسق الجامعة في مدة أقصاها يوم الأربعاء ٧/٦/١٤٣٤هـ .
- يمكن للطالب اصطحاب نسخ إضافية صغيرة الحجم من الملصق لتقديمها لمن يطلبها من الزوار .
-



http://www.posterpresentations.com/html/free_poster_templates.htm
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Useful Resources:

- **A Guide for Preparation,** Carol Waite Connor, U.S. Geological Survey
- **How to Make a Great Poster,** Dina F. Mandoli, University of Washington
- **Creating Effective Poster Presentations,** North Carolina State University

Resources

- http://colinpurrington.com/tips/academic/posterdesign
- اعداد وتقديم الملصقات العلمية

د.هبه عبداللطيف كردي

Thank you