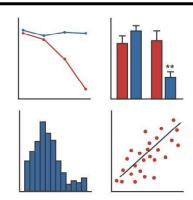
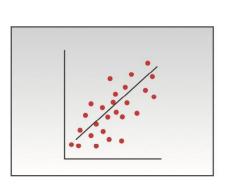


Poster Presentations

Undergraduate Research Hub





Scientific Content

Visual Information

+

Your ideas, experiments, results, discussion, etc. Anything you want to communicate to an audience. All of the visual aids you use to communicate information. In a paper, these are your figures; in a slide presentation, these are your slides; and in a poster presentation, this is your poster.



Delivery

Your narrative that leads the presentation of your visual information. In a paper, your narrative is written on the page. In a slide and poster presentation, you deliver your narrative orally and with nonverbal communication (body language).

First step

The Purpose of Poster Presentations

- Visually present a summary of your research
- Serve as a visual aid that **supports** your oral presentation



Balancing Act

- Detailed and complete AND concise
- Poster should stand on its own
- Poster shouldn't be overwhelming with text



Design Tips

Plan

- Results
- Charts
- Bullet Points/Summaries
- Layout

Flow of sections

• Logical

Size

- Conferences dictate
 size
- 48" x 60" is typical



Design Tips

Text

- Get to the point
- Use bullet points
- Font
 - Use standard font
 - Headings: 32 pt
 - Text: 24 pt
 - Figure Details: 18 pt
- Balance with images
- Word Count
 - ~100 words / section
 - ~1000 words total



Design Tips

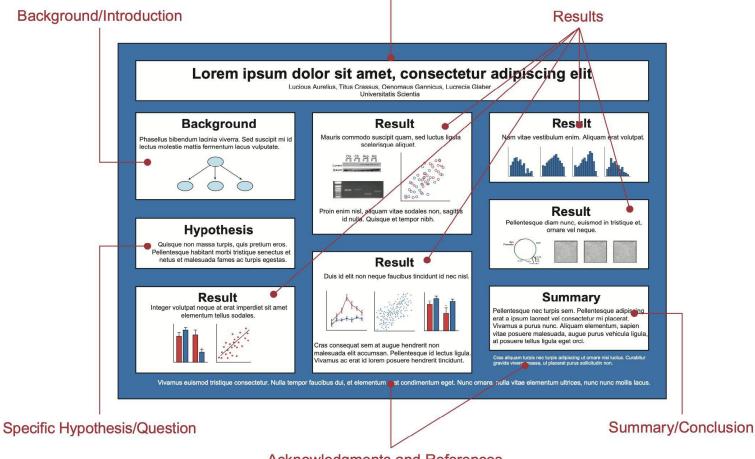
Images

- Photos/Figures
- Use to tell the story (e.g. models, charts)
- Use with purpose
- Balance with text

Color

- ~2-3 colors
- Use white space

Title with Authors and Affiliations



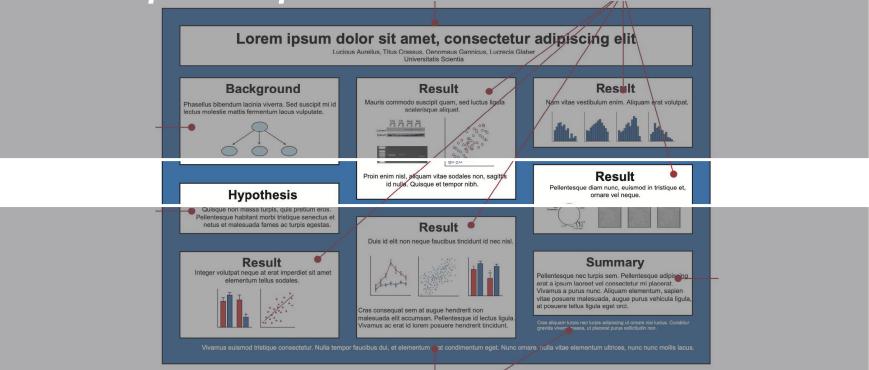
Acknowledgments and References

Everything on your poster needs to be visible from 10 feet away!

1/ 1 Title: 80 pt Lorem ipsum dolor sit amet, consectetur adipiscing elit Lucious Aurelius, Titus Crassus, Oenomaus Gannicus, Lucrecia Glaber Universitatis Scientia Headings: 32 pt Result Background Result Text: 24 pt Mauris commodo suscipit quam, sed luctus ligula Nam vitae vestibulum enim. Aliguam erat volutpat. Phasellus bibendum lacinia viverra. Sed suscipit mi id scelerisque aliquet. lectus molestie mattis fermentum lacus vulputate. Figure Details: 18 pt Cox Co Hyp Hip Result Proin enim nisl, aliquam vitae sodales non, sagittis id nulla. Quisque et tempor nibh. Pellentesque diam nunc, euismod in tristique et, **Hypothesis** ornare vel neque. Quisque non massa turpis, quis pretium eros. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Result Duis id elit non neque faucibus tincidunt id nec nisl. Result Summary Integer volutpat neque at erat imperdiet sit amet Pellentesque nec turpis sem. Pellentesque adipiseing elementum tellus sodales. erat a ipsum laoreet vel consectetur mi placerat. Vivamus a purus nunc. Aliquam elementum, sapien vitae posuere malesuada, auque purus vehicula ligula. at posuere tellus ligula eget orci. Cras consequat sem at augue hendrerit non malesuada elit accumsan. Pellentesque id lectus ligula. Cras aliquam turpis nec turpis adipiscing ut omare nisi luctus. Curabitur gravida viverremassa, ut placerat purus sollicitudin non. Vivamus ac erat id lorem posuere hendrerit tincidunt. Vivanus euismod tristique consectetur. Nulla tempor faucibus dui, et elementum mat condimentum eget, Nunc ornare, rulla vitae elementum ultrices, nunc nunc mollis lacus,



Premium poster space



Less visible poster space



Poster Sections

- Title, Authors, Logos
- Abstract
- Introduction/Background
- Hypothesis
- Methods
- Results
- Summary
- References
- Acknowledgements



Title

- Informative
- < 2 lines

Author(s)

- Presenter's name
- Anyone else who contributed significantly
- Pl

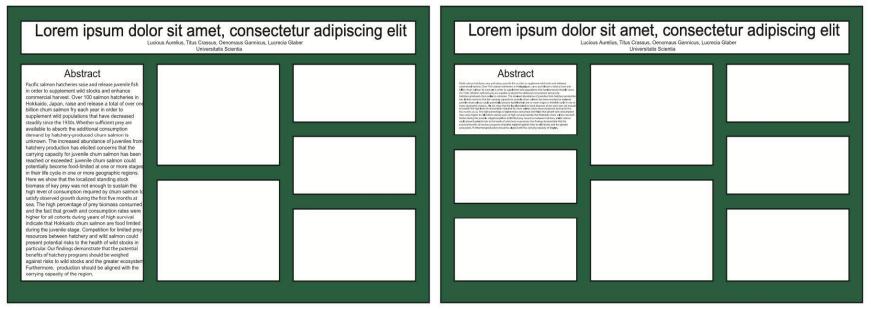
Affiliations

Logos

- University
- Program
- Grant

Abstract

- Can take up valuable space
- Consider leaving off if you need the space



Full abstract, legible font.

Full abstract, tiny font.



Introduction/Background

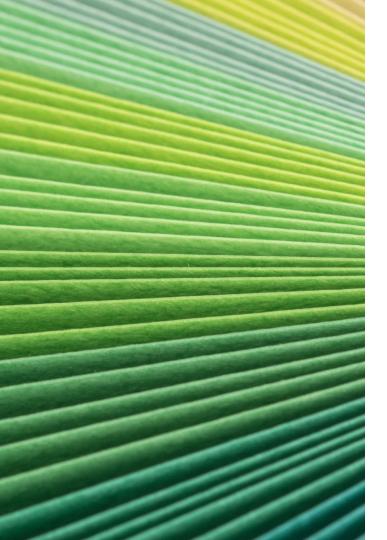
- Brief
- Hook your audience

Hypothesis

- Brief
- Possibly use diagrams

Methods

• Details depend on audience, complexity, and importance



Results/Findings

- 3-4 main findings
- Group/organize logically
- Easily understood figures
 - Simple, clear labels
- Complex figures
 - Reconsider using
 - Separate caption
- You will present the findings, don't need to explain via text



Summary

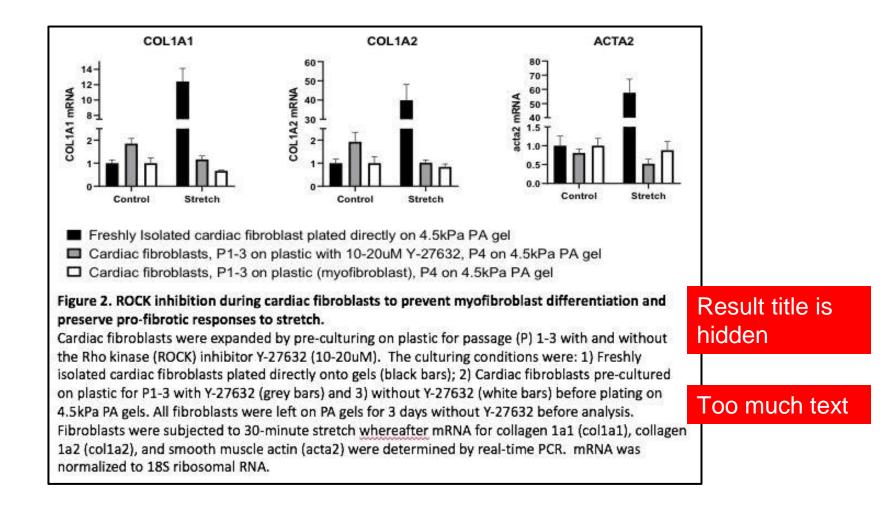
• Restate main takeaways

References

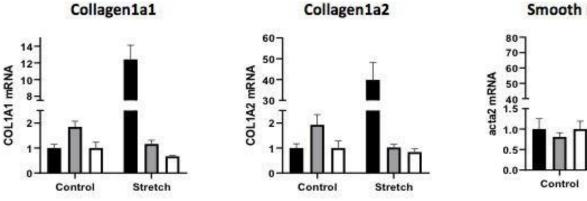
- Don't forget!
- Font size can be a little smaller

Acknowledgments

- PI/Mentor
- Significant People
- Funding
- Program



ROCK inhibition during cardiac fibroblasts prevents myofibroblast differentiation and preserves pro-fibrotic responses to stretch. Result title



Smooth Muscle Actin

Stretch

is clear

Freshly Isolated cardiac fibroblast plated directly on 4.5kPa PA gel

Cardiac fibroblasts, P1-3 on plastic with 10-20uM Y-27632, P4 on 4.5kPa PA gel

Cardiac fibroblasts, P1-3 on plastic (myofibroblast), P4 on 4.5kPa PA gel

Cardiac fibroblasts were expanded by pre-culturing on plastic for passage (P) 1-3 with and without the Rho kinase (ROCK) inhibitor Y-27632 (10-20uM). All fibroblasts were left on PA gels for 3 days without Y-27632.



O⁶-Benzylguanine Inhibits Tamoxifen Resistant Breast Cancer Cell Growth and Resensitizes Breast Cancer Cells to Anti-Estrogen Therapy

Joshua Smith¹, George C Bobustuc¹, Rafael Madero-Visbal¹, Jimmie Colon¹, Beth Isley¹, Jonathan Ticku¹, Kalkunte S. Srivenugopal and Santhi Konduri¹ ¹Cancer Research Institute of M.D Anderson Cancer Center Orlando ²Texas Tech University Health Sciences Center, Amarillo, TX

O6-Benzylguanine Plays a Dual Role in Tamoxifen Resistant MCF-7 Cells: Contrasting with the experiments above, next, we



Abstract

Endocrine therapies using anti-estrozens are least toxic and very effective for breast cancers, however, tumor resistance tamoxifen remains a stumbling block for successful therapy. Based on our recent study on the involvement of the DNA repair protein MGMT in pancreatic cancer (Clin Cancer Res. 15, 6087, 2009), here, we investigated whether MGMT overexpre ediates tamoxifen resistance. Specifically, we determined whether administration of MGMT inhibitor [OP-benzylguanin (BG)] at a non-toxic dose alone or in combination with the anti-estrogens (tamoxifen/fulvestrant) curtails human tamoxifer resistant breast cancer cell growth. Further, we also determined whether BG sensitizes breast cancers to tamoxifen using tamoxifen resistant cells.

MGMT expression was found to be increased in breast cancer cells relative to normal breast epithelial cells. Also, MGMT levels were significantly higher in tamoxifen resistant MCF-7 compared to the parent cells. Silencing of the ER-a expression using a specific siRNA resulted in augmentation of MGMT mRNA and protein levels by 2 fold. We also observed an inverse correlation between MGMT and p53 levels in breast cancer cell lines; moreover, p53 downregulation was accompanied by increased MGMT expression. Other experiments showed that BG alone or BG in combination with tamoxifen or fulvestran decreased ER-a expression, whereas tamoxifen alone and fulvestrant alone increased and decreased the same respectively However, all these treatments increased the patter mRNA and protein expression significantly. BG inhibited tamoxifer resistant breast cancer growth in a dose-dependent manner and it also resensitized resistant breast cancer cells to anti-estrogen therapy (TAM//Cf). These combinations also enhanced the cytochrome C release and the PARP cleavage, indicative of apoptosis. In breast cancer xenografts, BG alone or a combination of BG with tamoxifen or fulvestrant caused significan tumor growth delay and immunohistochemistry revealed that BG inhibited the expression of MGMT, ER- a, ki-67 and increased p2100 staining. These findings suggest that MGMT inhibition may provide a novel and effective approach for overcoming tamoxifen resist.



Recent advances in breast cancer research have identified key pathways involved in the repair of DNA damage induced by chemotherapeutic agents. The ability of cancer cells to recognize DNA damage and initiate DNA repair is an important mechanism for therapeutic resistance and has a negative impact on therapeutic efficacy. A number of DNA-damaging alkylating agents attack the nucleophilic O⁴ position on guanine, forming mutagenie and highly cytotoxic interstrand DNA crosslinks. The DNA repair enzyme Ob-alkylguanine DNA alkyltransferase (AGT), encoded by the gene MGMT, repairs alkylation at this site and is responsible for protecting both tumor and normal cells from alkylating agents. MGMT is expressed constitutively in normal cells and tissues. In breast tumors, MGMT gene expression is elevated and levels are up to 4-fold higher than in the normal breast. Interestingly, it has been shown that tamoxifen accelerates proteasomal degradation of MGMT in human cancer cells. In 1991, Pegg, Moschel, and Dolan observed that O⁶ benzylguanine (BG) inhibited AGT and potentiated the cytotoxicity of both chloroethylating agents and methylating agents. In a series of important observations, they fully characterized the interaction between BG and AGT and its theraneutic impact. The showed that BG binds AGT, transferring the benzyl moiety to the active-site cysteine [29]. The reaction is very rapid and more potent than any other previously known AGT inhibitor. BG is not incorporated into DNA in living cells and reacts directly with both extoplasmic and nuclear AGT. Because BG is a psuedosubstrate for MGMT which results in the covalent transfer of benzyl group to the active site cysteine, the MGMT protein is degraded after each reaction. This stoichiometrireaction mechanism effectively depletes the AGT content in tumors and the associated repair of alkylation damage. BG is currently undergoing clinical trials in various cancers to increase the efficacy of alkylating agents.

Interestingly, several observations suggest an inverse correlation between the levels of MGMT and p53 tumor suppresse proteins where wild-type p53 suppresses transcription of human MGMT expression. Unfortunately, p53 function is often inactivated or suppressed in human cancers; therefore, restoration of wt-p53 activity is essential for the success of some treatments. However, whether or not this is mediated by suppression of MGMT expression has yet to be determined. To date, the cross-talk between MGMT and ER-alpha (and the link to p53 expression) has not been explored in drug (i.e. tamovifen) resistant breast tumors. The anti-estropen tamovifen is the most commonly used treatment for nationts will estrogen receptor positive breast cancer. Although many patients benefit from tamoxifen in the adjuvant and metastatic settings, resistance to this endocrine therapeutic agent is an important clinical problem. The primary goal of present study was to investigate the mechanisms of anti-estrogen drug resistance and to design new therapeutic strategies for circumventing this resistance. The results show that MGMT expression is increased in TAM-resistant breast cancers and inhibition of MGMT by BG significantly improves TAM-sensitivity.

Results

Prolonged Treatment of Tamoxifen Increases MGMT Expression: We developed a tamoxifen resistant MCF-7 cell line by using prolonged treatment of tamoxifen on the parental ER-positive breast cancer cell line, MCF-7, Tamoxifen-resistant MCF-7 cells proliferate at rates similar to the parental MCF-7, Prolonged treatment of tamoxifen onto MCF-7 cells increased MGMT expression compared to parental MCF-7 cells by 2 fold (Fig.t).

Knocking Down ERa Enhances MGMT Expression in Tamoxifen Resistan Breast Cancer Cells: It is not known whether ERg and MGMT transcriptionally regulate each other in tamoxifen resistant breast cancer cells. We therefore investigated whether down regulation of ER α has any effect on endogenous MGMT expression in these cells. As expected, downregulation of ER α using specific siRNA significantly reduced ERG protein levels in these cells. Western blot analysis was performed and the results in the left panel (Fig. 2A) shows that silencing of ER α increases MGMT expression in these cells, and interestingly, the results in the right panel (Fig.2B) show increased MGMT mRNA levels were increased as assessed by qRT-PCR. These data suggest that ERa-mediated signaling functions to repress MGMT gene expression in

Transcriptional Regulation Between MGMT and p53: Previously, it was reported that p53 negatively regulates MGMT in breast cancer cells. Therefore, we addressed whether or not silencing the p53 enhances endogenous MGMT transcription. Tamoxifen resistant MCF-7 cells were transfected with either p53 siRNA (p53-KD) (Fig.2C) or MGMT siRNA (MGMT-KD) (Fig.2D) along with Non-specific siRNA (NS), MGMT expression was consistently increased in p33 knock down cells, with different experiments showing a - for intrasted in FGD shows more teal, includes experiments showing a - fold augmentation (Fig. 2A) and as expected, knocking down MGMT decreased MGMT transcription where as p53 mRNA levels were unaffected in MGMT knocklown cells (Fig. 2D). These results confirm that p53 can regulate MGMT at Figure 1. MCF-7 parental and tan Figure 1. SI(1-7) parential and tansmind resistant MCT₇ cell peliets were prepared, proteins were isolated and MGMT capression was detacted by western blut andysis. Tamosifer resistant MCT₇ proset cancer cells significantly increased MGMT capression compared to MCF₇ parental cells. the transcriptional level.

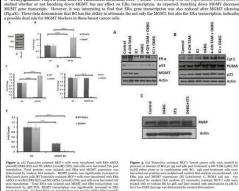
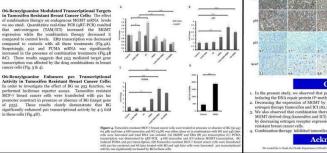


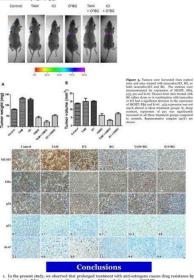
Figure 2. (A) Tennoiden resistant MCF-7 cells were transferred with ERs siRNA (1001KH) (ERs-KD) and NS siRNA (1001KH) (NN), and cells were harvested rinh post transferition. Total proteins were looked and ERs and MGMT expression was determined by western bidst analysis. MGMT postein was significantly increased in ERs hand, down cells (B) Tanobian resistant MCF-7 cells were transferred with ERs Bit interd down etch (11 Transform resistant MCP ~cfit low rest transform with Bit MCN (1004)) (1005 MCN and NSA 305K) and NSA 305K) and NSA 305K a

O6-Benzylguanine Modulates p53 Down-Stream Targeted Protein Expressions: Encouraged by the results reported, w investigated the effect of combination therapy on endogenous MGMT, p53, and ER0 protein expressions. As expected, BG decreases MGMT expression, while combination therapy (4-OH-TAM or ICI combined with BG) significantly decreased both MGMT and ERC spressions. BG alone or in combination with tamoxifen or ICI decreased ER-G expression, whereas tamoxifen alone and ICI alone acreased and decreased the same respectively (Fig.3A), p33 expression was slightly altered after ICI treatment. The reduction in p33 sion by ICI alone was reversed when BG was combined (Fig.3A). We investigated the effect of BG on proteins which are involve spression of relation was reverse when of was considered ($\eta_{g,S}$). The introduced are entered to be in process when are involved in cell cycle regulation, apoptois in tamoxilen resistant breast career cells. All these treatments significantly increased the priv-protein expression (Fig.gB). PUMA expression was also increased with these treatments. Hence, PUMA may have translocated to the nitochondria, cytochrome C is released (Fig.3B), and apoptosis was triggered in these cells in presence of combination therapy. PARF cleavage is seen in BG treated cells in presence of staurosporin as an indicative of apoptosis (Fig. 3C). Therefore, this data suggest that BG promotes cell cycle arrest and can induce apoptosis by modulating p53 function.



O6-Benzylguanine Inhibits Tamoxifen Resistant Breast Cancer Cell Growth and Increase Resistant Breast Cancer Cell Sensitivity to Anti-Estrogen Therapy (TAM/ICI): Detailed necropsy revealed that all he mice had tumors in the breast. The data summarized in Table 1 show the daily BG alone or in combination ith twice weekly tamoxifen/ICI significantly decreased median tumor volume and weight as compared with that seen in tamovifen/ICI treated and control mice. The combination of BG with tamovifen or ICI produced the greatest decrease in median tumor volume as compared with control mice (83.99 mm³, 9.33 mm3 (TAM+BG), preases decrease in inclusion control with control in the total of the second s mg (TAM+BG), respectively, p<0.0005); (81.23 mg, 51.57 mg (ICI+BG), respectively, p<0.0005). (Table.1). Body weight was not changed among all treatment groups as compared with control mice. No visible liver metastase were present (enumerated with the aid of a dissecting microscope) in all treatment groups.

Histology and IHC Analysis: We next determined the in vivo effects of BG (alone or in combination) with unoxifen/ICI. Tumors harvested from different treatment groups were processed for routine histological and IHC malysis. Tumors from mice treated with BG alone or in combination with tamoxifen/ICI exhibited a significant lecrease in MGMT, ERa, ki-67 as compared with tumors treated with tamoxifen/ICI alone or control group. p53 sion was not much altered in these treatment groups. In sharp contrast, the expression of p21 was nificantly increased in tumors from mice treated with BG either alone or in combination with tamoxifen/ICL he images were analyzed by ImageJ (NIH) and MGMT, ER0, p53, p21 and ki-67 expressions were quantified by he ImmunoRatio plugin. (Fig.5).



- inducing the DNA repair protein O⁶-methylguanine DNA methyltransferase (MGMT). 2. Decreasing the expression of MGMT by exposing breast cancer cells to BG sensitized these cells to anti-
- estrogen therapy (tamoxifen and ICI 182,780). . We also observed that combination therapy of anti-estrogens and MGMT blockers not only overcame the
- MGMT derived drug (tamoxifen and ICI) resistance but also increased the efficacy of anti-estrogen therapy by decreasing estrogen receptor expression and restoration of the functional activity of p53 in tamoxifen

. Combination therapy inhibited tamoxifen resistant breast tumor growth in vivo

Acknowledgements

We would like to thank the Florida Department of Health, Rankberd-Coley Cancer Research Program calls, so for their fanding of this project







-

in order to investigate the effect of BG on p53 function, we performed luciferase reporter assays. Tamoxifen resistant MCF-7 breast cancer cells were transfected with p21 luc promoter construct in presence or absence of BG (target gene of pv3). These results clearly demonstrate that BG ignificantly enhanced p21 transcriptional activity by 4-5 fold in these cells (Fig.4D).

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam tempus nulla ut elit sodales et pellentesque urna pellentesque. Sed iaculis ipsum sed lacus porta sagittis. Maecenas imperdiet lacinia lectus in vulputate.

Lucious Aurelius, Titus Crassus, Oenomaus Gannicus, Lucrecia Glaber Universitatis Scientia

Background

In vitae lobortis sapien. Nam dignissim pulvinar lorem, quis sodales nisl scelerisque a. Prasent in tortor mi. Sed aliquam diam sit amet tortor vehicula id ultricies sapien pulvinar. Ut et nisi ac erat molestie volutpat. Eusce quam leo, pretium ut rutrum vestibulum, placerat rhoncus nunc. Nulla urna enim, adipiscing a egestas quis, posuere a mi. Maecenas hendrerit libero at orci ultricies vitae portitior est venenatis. Vivamus non elit posuere nulla tincidunt viverra. Suspendisse a elit velit, eu sodales enim. Curabitur sit amet felis in massa posuere tempus eu nec ligula. Suspendisse quis ullancorper libero. Nulla tristique dolor id dui pellentesque tincidunt eguis affeis effet auctor erat nec loe tempor tristigue. Pellentesque tincidunt egesta felis et tincidunt. In id lacus vitae nisl pulvinar molestie eu eget arcu. Sed condimentum rutrum fermentum. In at nisi non dui tincidunt tempor quis sed lacus. In consectetur ros a cle or tristigue vehicula. Nulla vel leo quam.

Hypothesis

Suspendisse potenti. Vivamus rutrum hendrerit sapien sed sollicitudin. Sed commodo mauris a sapien ullamcorper pharetra. Donce et vestibulum dui. Fusce pretium dui id ipsum imperdiet vitae pharetra eros rhoncus. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Fusce vitae turpis vel mi posurer ornare. Aenean convaliis eleifend lorem, quis vestibulum nisl euismod mollis. Aenean pellentesque convalis eleifend. Aliquam erat volutpat. Sed varius mauris sagittis nibh dictum sollicitudin. Aliquam tent orderit purus et quam tempus sed gravida erat posuere.

Result

Curabitur eget lorem eu magna faucibus vestibulum. Nam luctus, ligula porta pharetra placerat, massa nulla faucibus turpis, vel auctor lectus risus quis diam. Morbi euismod, est nec dictum sagittis, orci sem interdum sem, at congue risus orci semper elit. Ut suocipit diginaismi diam sit amet vestibulum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. In leo lorem, tincidunt non ultrices at, tempus sit amet lacus. Praesent matis metus et arcu vulputate a egestas dolor porta. Nulla portitior, purus sit amet melsuada consequat, massa elit dapibus ante, sed malesuada tellus urna vitae purus.

Result

Nulla vel ante vitae diam accumsan scelerisque. Vivamus feugiat justo a odio adipiscing auctor. Sed tristique elementum varius. Donce pellentesque bibendum dui, et bibendum neque viverra eget. Suspendisse sagittis, lectus a pharetra sagittis, orci massa scelerisque lectus, non aliquam diam orci tempus mi. Praesent portitior fringilla leo, et fermentum dui ornare ac.





Pellentesque orci tellus, rhoncus sit amet hendrerit pulvinar, ultricies vitae eros. Pellentesque sagittis feugiat urna, nec placerat sapien eleifend in. Vestibulum in lectus est. Ut blandit ante sit amet arcu posuere laoreat. Aliquam erat volutpat. Donec tristique diam eu magna pretium pellentesque. Maceenas aliquam nulla purus, in auctori ligula. Sed varius posuere porta. Nullam non enim ac massa aliquam suscipit. Duis nec ligula au nibh adipiscing eleifend et consequat lectus. Morbi vitae enim dui. Macenas tincidunt suscipit tortor, vel auctor lectus dictum ac. Nullam pellentesque, magne feugiat adipiscing aliquet, urna olit sollicitudin orci, eu ultrices sapien nisi pretium turpis.

Result

Quisque laoreet consequat sapien, at commodo felis pellentesque id. Aenean mattis lorem in massa consequat dapibus. Etiam vulputate, risus at euismod facilisis, nisi est interdum sem, id ultricles lectus nibh eget quam. Morbi at est libero, a vestibulum ligula. Pellentesque ultricies tortor quis nulla porta scelerisoue.



Sed vestibulum, ipsum eget hendrerit venenatis, sem sapien congue nisi, mollis sodales nisi risus eget libero.

Aliquam fermentum commodo faucibus. Duis rutrum tortor vitae neque dignissim sagittis. Donec neque nulla, egestas et dignissim eu, eleifend non tortor. Sed varius auctor diam id consectetur. Ut vel justo sed orci pretium faucibus. Etiam aliquam arcu vel purus viverra accumsan. Maecenas purus quam, venenatis eu accumsan quis, accumsan ac nulla. Donec metus felis, rhoncus ac aliquet eget, fermentum eu metus. Etiam tempus adipiscing nunc, id convallis ante iacculis nec. Donec portitor molestie lacus non malesuada. Donec dui dolor, pellentegue vel accumsan eu, pharetra sed lorem.

Result

Suspendisse potenti. Nulla tellus sem, placerat vel cursus sed, auctor vitae tellus. Fusce eu arcu at dian tincidunt portitior tincidunt eu urna. Quisque pretum jpsum quis sapien dapibus fringilla a nec eros. Praesent tincidunt varius ante. Duis nec pellentesque nisl. Duis dignissim orci ut justo vestibulum aliquam. Fusce ac quam rhoncus orci adipiscing semper. Fusce lacus urna, aliquet id rhoncus vitae, tincidunt nec elit. Cras elementum mi eu felis aliquam condimentum.



Result

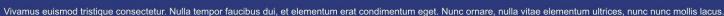
Proin eget veilt eget erat oursus ultricies vel vitae ante. Nullam ac erat nisi. Maecenas ac metus est. Mauris quis vestibulum metus. Suspendisse sed purus diam. Aenean mollis ipsum cleifond diam feugiat at tempus nibh solicitudin. Aliquam elit mauris, blandit at suscipit eget, consequat non lacus. Nullam interdum, tortor id cursus ormare, justo justo lobortis felis, non ultrices augue elit vel dui. Donec sollicitudin portitior uma eget consequat. Cras lacinia eleifend varius.



Summary

Nullam lacinia ipsum vel risus auctor scelerisque. Sed a leo quis nisi semper vehicula sit amet sed neque. Donec id est orci. Integer id justo sit amet felis consequat aliquet. Quisque scelerisque facilisis dui nec condimentum. Integer elementum massa nec turpis varius pellentesque. Donec nibh augue, consecteur sed malesuada et, faucibus quis lectus. Phasellus suscipit iaculis enim ut lacinia. Integer varius, lorem non porta tempus, enim risus iaculis diam, vitae mattis felis lacus ut risus. Cras suscipit frigilla ante a aliquam. Ut cursus elit ut orci sodales volutpat. Ut gravida nisi non mi euismod vel fringilla turpis volutpat. Donec sagittis condimentum purus, non gravida massa gravida vel. In bibendum elementum nulla, sed tempus mi pretum sed. Nam a dolor leo. Fusce vitae eros nulla. Nullam dignissim lacus sit amet nibh interdum viverra. Nunc iaculis aliquet uma, eu faucibus orci pharetra ut. Suspendisse sit amet lacina dolor.

Cras aliquam turpis nec turpis adipiscing ut ornare nisi luctus. Curabitur gravida viverra massa, ut placerat purus sollicitudin non.

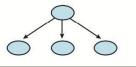


Lorem ipsum dolor sit amet, consectetur adipiscing elit

Lucious Aurelius, Titus Crassus, Oenomaus Gannicus, Lucrecia Glaber Universitatis Scientia

Background

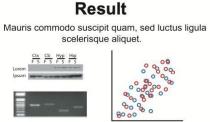
Phasellus bibendum lacinia viverra. Sed suscipit mi id lectus molestie mattis fermentum lacus vulputate.



Hypothesis

Quisque non massa turpis, quis pretium eros. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.

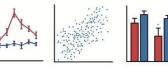




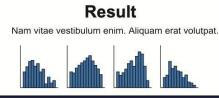
Proin enim nisl, aliquam vitae sodales non, sagittis id nulla. Quisque et tempor nibh.

Result

Duis id elit non neque faucibus tincidunt id nec nisl.



Cras consequat sem at augue hendrerit non malesuada elit accumsan. Pellentesque id lectus ligula. Vivamus ac erat id lorem posuere hendrerit tincidunt.





Summary

Pellentesque nec turpis sem. Pellentesque adipiscing erat a ipsum laoreet vel consectetur mi placerat. Vivamus a purus nunc. Aliquam elementum, sapien vitae posuere malesuada, augue purus vehicula ligula, at posuere tellus ligula eget orci.

Cras aliquam turpis nec turpis adipiscing ut ornare nisi luctus. Curabitur gravida viverra massa, ut placerat purus sollicitudin non.

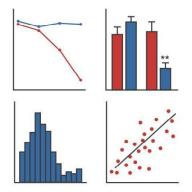
Vivamus euismod tristique consectetur. Nulla tempor faucibus dui, et elementum erat condimentum eget. Nunc ornare, nulla vitae elementum ultrices, nunc nunc mollis lacus.

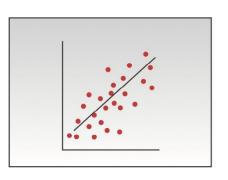
https://ugs.utexas.edu/our/poster/samples



Software

- PowerPoint/Google Slides
- Adobe Illustrator
- Open-Source Alternatives
 - OpenOffice
 - Inkscape and Gimp
 - For charts and diagrams try Gliffy or Lovely Charts





Scientific Content

Visual Information

+

Your ideas, experiments, results, discussion, etc. Anything you want to communicate to an audience. All of the visual aids you use to communicate information. In a paper, these are your figures; in a slide presentation, these are your slides; and in a poster presentation, this is your poster.



Delivery

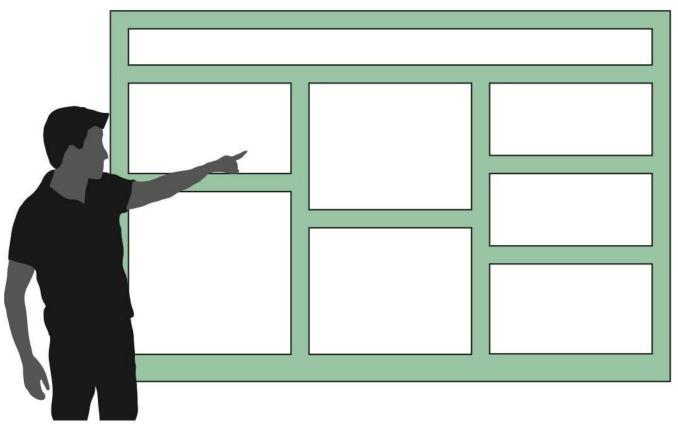
Your narrative that leads the presentation of your visual information. In a paper, your narrative is written on the page. In a slide and poster presentation, you deliver your narrative orally and with nonverbal communication (body language).



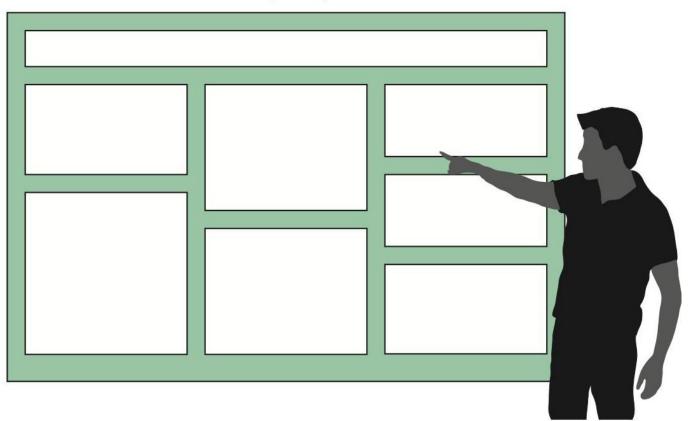
Presentation Tips

- Be present at your poster!
- Know your audience
- Point out visuals, but not text
- Consider supplementary information (e.g., a handout, tablet)
- Don't block your poster
- Be professional
 - Dress, hygiene, body language

Always start a walkthrough by standing just to the left of your poster.



When you are about halfway through, completely cross to the other side.





Much of the material here from Matt Carter, *Designing Science Presentations* as well as <u>Research Guides: How to Create a Research Poster: Design Tips</u>

<u>Designing conference posters</u> — for advice & templates!

Powerpoint poster templates for research poster presentations

Scientific Poster PowerPoint Templates