## Celebration of Scholarship Poster Workshop

March 11, 2015 Dolan A202/203

### Presented by:

- Cathy Anson, Advisor to the Celebration (Director of Sponsored Research)
- Dr. Erin Johnson, Honors Program Advisor (Assistant Professor, Biology)



### Poster Session: April 13, 2015

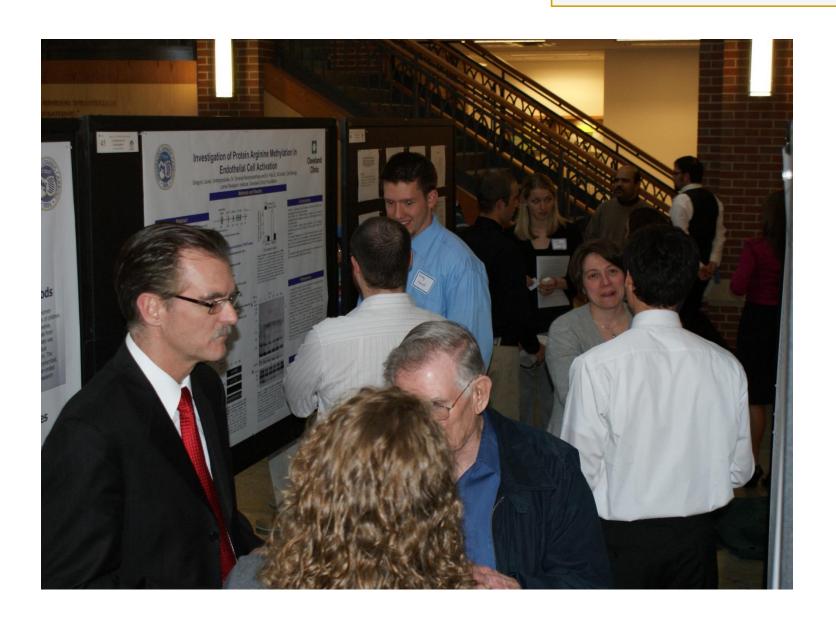
- Session starts at 5:30 PM; ends at 7:00 PM in Dolan Atrium
- Participant Reception: 5:00 to 6:00 PM in the Dolan Reading Room





### Poster Session: April 13, 2015

- Posters available in Dolan Atrium by noon
- Hang your poster by 5:15 PM according to your poster number
- Push pins available in the Atrium
- Leave your poster up until Thursday afternoon
- Poster stands will be picked up Friday morning



### What to Expect

- Dress professionally
- Wear your name tag (available day of show)
- Stand by your poster for the entire time (5:30 to 7:00 PM)
- Interact with visitors
- Present a short overview of the project (~3 minutes)
- Be prepared to answer questions

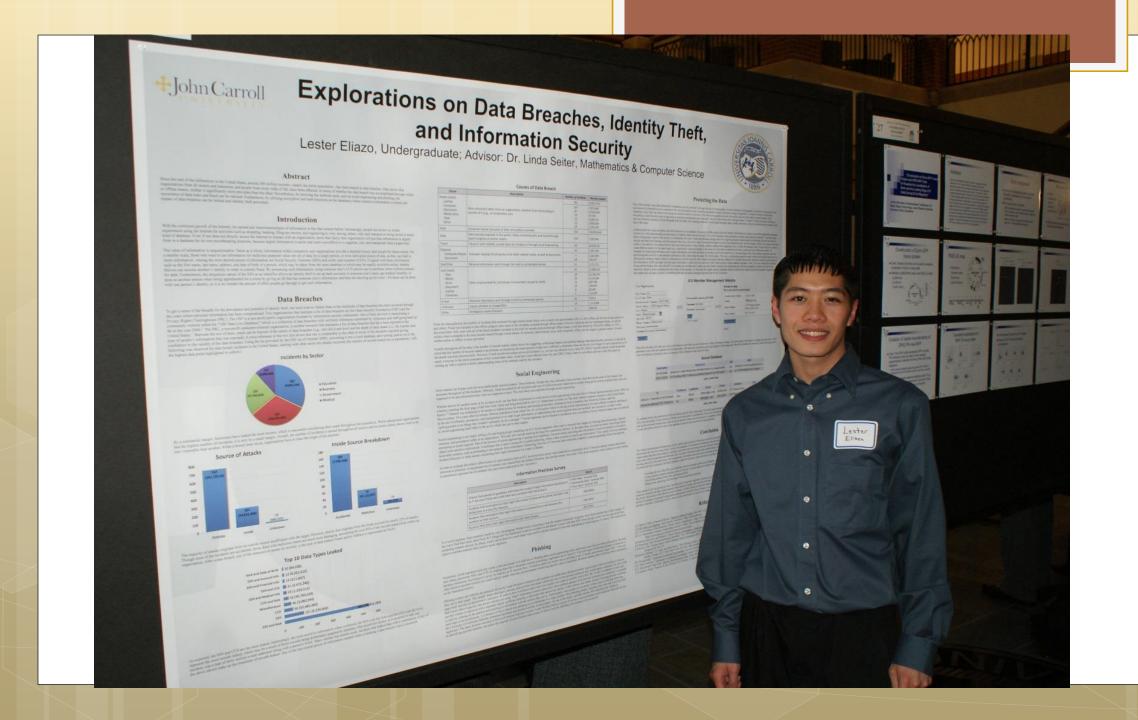
# Creating Your Poster!

## Old Style Posters: 2005



# Old Style Posters: 2005





### Template Available

- On the Celebration web on the <u>Poster Guidelines</u> page
- Print your poster for free through ITS
  - Celebration cover the cost to print in color on plain paper.
     You can pay to have your poster printed on glossy paper.
  - o Deadline to send to ITS: Wednesday, April 8, 2015

# Title Author(s) and Affiliation(s)

Abstract / Lit Rev
Introduction /
Background

Purpose /Argument Research Question

Methods / Study Design

/ Objectives

Methods /
Materials

Analysis / Discussion

Graphics/Tables/
Images

Key Results /
Findings /
Significance

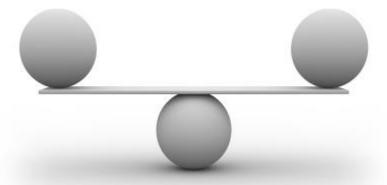
Conclusion /
Recommendations
/ Future Directions

Selected References/ Acknowledgements

### Refining Your Story

- What do you want your audience to remember?
- How can you condense the entire project into a few key points?
- What should be emphasized?
- What can remain in the background?

### Layout, Style & Format



### Identification of the Cell of Origin for Wnt Pathway-Associated Medulloblastoma

Yanxin Pei and Robert Wechsler-Reya Department of Pharmacology & Cancer Biology, Duke University Medical Center, Durham, NC.

#### ABSTRACT

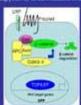
Wet pulmer mutations have been found in combellar model-blastons, the most common malignast brain toner at children. However, the rell type that is transferred by aberrust Wet signaling remains unknown. Our goal is to identify this cell and use it to develop models for Wit pothers associated models/Namena. To this end, we are the constraint. These cults will be pointed and boost for their ability to be transferred by Wit-patrier agreemen, in address, many human mobili-blost-green express the insecription factor Neuropean-L (Ngal), name the possibility that Ngs.14 sufficiently represent a self of origin for these turners. We have used the Ngs.1 promoter to drive expression of B-catesia in Wat perform mediators in creat These mice have smaller carefiells and exhibit defacts in contellar development. Organiz softions to once mobili-blestone Finally, we have observed that CD133+ noted mens calls profitents in response to Wat pulwar activation in vitte and following timers following templatures. These studies will provide apportunissigle out the collabor and exchangler machinement of machillothestorms

#### BACKGROUND

Michillo Bantonia in the most avenues malignant beam tomor or abbless. It has been divided jate two major autrypes based on hierfregied and molecular characteristics, "elamin" molecularitationum and "ferminatura" modelli biasticina. The cell of origin is not clear for either subtype but were studies suggest that the lices, while the latter may originate from granule cell procursors in the external germand layer (FGL). Recent studies have suggested that the Senic hedgebog-Perched signaling pullman plays a critical tole in regulating the proliferation of grands cell. preparent and is also a major target of materies in descripture medical-bineranes. However, the purposers of classes mobile-binerane consists unknown. Send findings regard that the West-Seatonic signifies politics in activated as a subset of these tuners. Understanding of the role of War pulseary in tuner information ran-dred light on the stokings of classic metallichtentoms.

processes including cell fate specification, problemation and differentiation. With Witt signaling patterns: Activating maintens in fluorierin Faces have been identified in 3-10% of specialic modellobbiotomic. In addition, mutation of Warl results in the loss of mal-healtean beauting, from which the condultum arises. Thus, Win-ficauses signaling plays a critical role in the development of condictions and formation

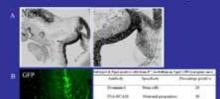
formation, the sole is solf-type dependent. Our goal is to aboutly the cell of origin for Wat signaling polymer in the formation of muhali-blooming.





Wats signaling pathway. Witts activate expression of target genes through ficatenia which is an essential component in the Wat pathway. In the absence of Witt signaling, B-catenin is in a complex with Axin, APC and GSK3-B, and gets phosphorylated and subsequently degraded by proteosomes. In the presence of Wnt signaling, fi-catesia is uncoupled from the degradation complex and translocates to the nucleus, where it binds TCF/LEF transcription factors, thus activating target genes.

#### 1. Expression of Neurogenin I (NgnI)



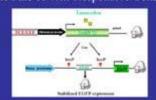
Expression of NgsE in a subset of corebellar progenitors. (A) is one for NgsE in E11 nonemal or glist programms market and analyzed by FACS.

#### 4. Generation of mice in which β-catenin is activated in Neurogenin-1 Cells



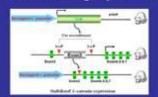
each old mice. Wild type (WT), left: Nge I-face\* matter (M), ngle. (H) Carchellon: WT, left M. right. Suptted sections of conduction were fixed and second with DATE (C). WT. (D), M.

#### 7. Generation of BAT-CreER Mice to Track the Fate of Wnt-Responsive Cells

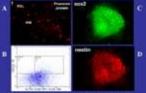


Stabilized expression of EGSP under the control of of ECFLEF promoter. The CroER the Cre in the TCF LLT positive path. The leaft-fluxical step codes is summed by Cre and EOFP will be expected. The cycles of spation is recognish to that EOFP expression can be used to trace the face of West-suppositive selfs.

#### 2. Generation of mice in which β-catenin is activated in Ngn I positive Cells

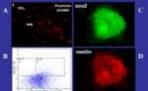


Stabilised expression of Beatsuite under the counsel of of Ngali promoter. The important of Jose's which contains phosphosistic sites or reserved by Ore recombinate in exclusions of the Ngal positive cells. Thes abolitical frequence meters technical and artistic deviations to aget process in West agreement process.

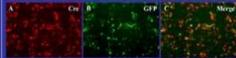


the conductor white matter (25) The colls from 27 conduction were stained with Prostonia and

#### 5. Stem Cell Property of CD133 Positive Cells

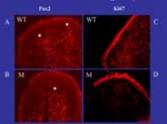


### 8. Bat-CreER Activation by β -catenin in 293T Cells



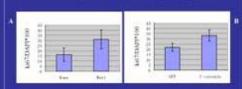
Cre Provin Expression in 2011 Cells. 2017 cells nove translated with F-cannon-IRES-GFF and the CreEF planning. The cells were should with Cre archively (A. red) and examined for GFP expression (Ell, genes) CM Margo of A and B.

#### 3. E18 Cerebellum in Ngn1-βcat\* Mice



Migration and profiberation of areshellion, Corcletter nations from E19-decold, (A), (C), wild intermental processor (A) (II), or MIC, a marker of professing selfs (C) (II) from the heaten of peak positive selfs polyridal in the controllers in WT (A) and in M (II). These selfs soler that suggestion on Night Octob metant conduction. However, The cults do not change the prediction between WT and M is the conduction.

#### CD133 Positive Cells Proliferate in Response to Wnt Signaling



Problemes of CD131 positive, Lineage seguitive cells (CD131+, Li-3 CD131+, Li-1 cells were pullered in the presence of West protein of F-estates-IEE-GIP view or IEE-GIP views. For 48 boson. The colle were fined and shound with \$107 and \$10,07. (A) West protein increased the polification of these selfs compared with oward. (II) Demons white increased the polification of CDD27. Lie and compared with asserts. Data represent source of an Eleks  $\pm$  EVM and are representative of O represents:

#### CONCLUSIONS

- Ngrd is expressed in cerebellar progenium during embryonic and early portraind development.
- Overexpression of B-catesia in NgsI positive cells reduces the size of the cerebellium and causes defects in interneuron impration, but does not cause
- Writ1 protein and fl-catesia virus can induce the proliferation of CD133 positive corebellar store cells.
- I) Commissinfected stem cells are now being transplanted into the corebellum
- BAT-CreER mace will allow lineage-tracing of Wat responsive cells at the cerebellian, and may identify sew candidates for the cell of origin of Win-associated medialioblamma.



The Beverly Beacon: A Woman's Newspaper 11/1/1913

...she is not capable, has never shown herself and never will show herself capable of sustaining alike the life of the family with all its profound and absorbing demands, and the laborious technique of public life.



Woman Suffrage is the opening wedge to Socialism and Feminism, propagandas antagonistic to everything held dear in Christian civilization.

A Slip of Paper in a Black Walnut Box: An Examination of the Suffrage Debate in Beverly, Massachusetts 1913-1915 Sarah Fuller, Bridgewater State University



4th of July Celebration, 1920, Dodge Street in North Beverly, Helen Wales and Beverly Dunham (L to R)

Thesis: By presenting never before analyzed primary source documents recently discovered in the archives of the local Beverly Historical Society in Beverly, MA, this study shines light on the local narrative, a missing piece of the state and national suffrage picture. Pro- and anti-suffrage women of Beverly, MA focused their attention on three major arguments: national economic changes and how these affected female responsibility within the home and family, whether or not female moral superiority had a role to play in politics, and finally, the social and political consequences that might result if women were allowed to vote.



...the hand of woman/a frail hand it is true/But it can rock the cradle and drop the ballot too...And though against that fragile hand/Distrust and doubt are hurled./Still, the hand that rocks the cradle/ Should help to rule the world.





Mary Boyden, Anti Suffrage Secretary and Treasurer Records, 1915

...the decline and fall of great nations and civilizations in our world history...three symptoms invariably attend the period of decay...the coming of women into public life and political prominence. This last factor...the fever of the diseased civilization.



If the polls are such vile, disorderly places as is claimed, then it is time woman purified them by her presence. Surely the affairs of state need to be conducted with decency and sobriety.

### Are Technical Communication Graduates Prepared?

By Janmy Nguyen

#### Objective

To determine ways in improving the curricula of undergraduate technical communication programs and workplace communication by understanding the disconnection between the education of technical writers and workplace writing practices.

#### Methods

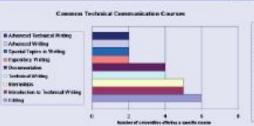
#### **University Curricula**

- Closely analyzed curricula from 7 universities in US with an undergraduate tech. comm. program
- Content analysis of required curriculum and course descriptions pertaining to tech. comm.
- Compared/contrasted offered courses among all the examined universities
- Correlated courses to current job postings

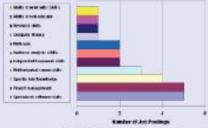
#### **Current Job Postings**

- Obtained 20 job postings in
- software documentation.
- " medical writing,
- proposal/grant writing, and
- instructional design
- Analyzed each posting's job description, skills requirement, and candidate's qualifications
- Compared/contrasted items in related and nonrelated fields
- Correlated postings to curricula in undergraduate tech, comm. programs

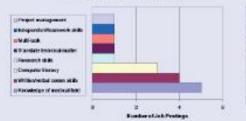
#### Results



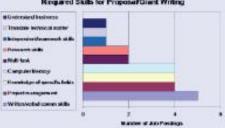
### Required Skills for Software Documentation



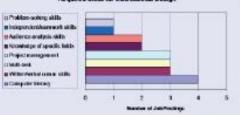
Required Skills for Medical Writing



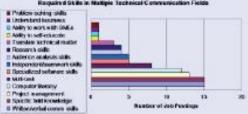
Required Skills for Propose/Grant Writing



Required Skills for Instructional Design



Recuring 6 Skills in Multiple Technical Communication Fields

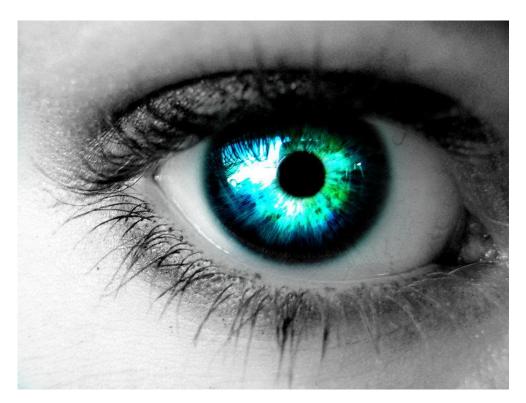


#### Conclusion

- No uniformity in curricula found among sample of undergraduate tech, comm. programs
- Most job postings required field-specific knowledge not explicitly addressed in curricula
- Communication skills most important in workplace but also not addressed in curricula
- Employers uncertain about graduates' amount of knowledge in specific fields of tech. comm.
- Specialized courses prepare graduates for specific fields but limits versatility
- Workplace communication remains a continual issue unless uniformity is set for all tech. comm. programs



# Preparing Your Performance



### Undergraduate Poster Competition

- Prizes!
- Judging

http://sites.jcu.edu/celebration/pages/poster-competition/



### Questions?

Slides from this presentation are available on the web at:

http://sites.jcu.edu/celebration/

### **Acknowledgements:**

- Dueck, Rachel. "Presenting research visually: a poster design overview." Northern Arizona University.
- "Poster Presentations." Undergraduate Research. University of Connecticut