



Latino Special Interest Group



Beyond the customary library services in instructional programs and reference, five health sciences librarians will discuss key aspects about their work in academia and public health information centers.

Allison Herrera

Technology & Communications Coordinator

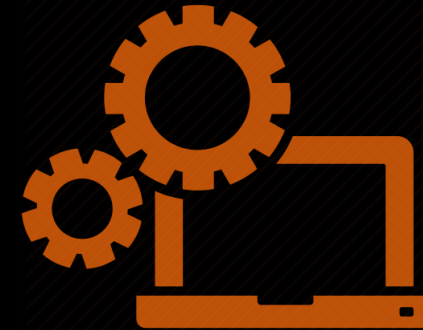


The University of Massachusetts Medical School
National Network of Libraries of Medicine, New England Region
National Public Health Coordination Office



About Me

- BFA - Visual Culture Education
Concentration in 3D Media
- Masters Library &
Information Sciences
- Computer Sciences – JAVA, R, C++,
Data Analysis, Databases
- Archives, Museums, Public Libraries,
Cultural Libraries, Health Sciences
Libraries
- Diversity, Social Justice, and Cultural
Identity Exploration



Background of NNLM



U.S. Department of Health
& Human Services (HSS)



National Institutes of Health



National Library of Medicine



National Network of
Libraries of Medicine

The mission of the NNLM is to advance the progress of medicine and improve the public health by providing all U.S. health professionals with equal access to biomedical information and improving the public's access to information to enable them to make informed decisions about their health.

NNLM Regions & Offices



8

New England Region (NER)

NER proudly serves: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont. The New England Region is based in Worcester, MA, at the University of Massachusetts Medical School.

NNLM NER – Recently Funded Projects

University of New England –
Extended Medical Education Virtual Reality



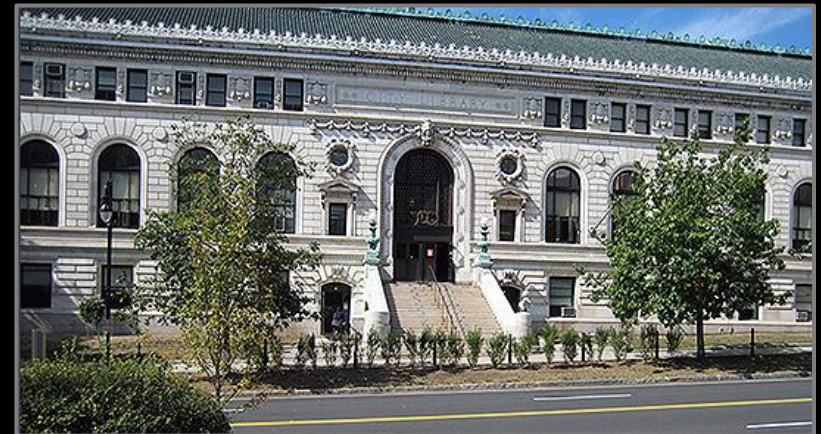
Pettaway Pursuit Foundation –
Doula Technology Enhancement



CoughSpot –
CoughEtiquette



Springfield City Library –
Health in the Square



My Unique NNLM Responsibilities

- Data Analysis & Mapping
- Website Development & Design
- Storytelling with Data
- External & Internal Communications
- National & Regional Teams
- Government & University Policies
- 508 Compliance
- Curriculum Development
- Teaching Webinars
- Organizing Interest Groups
- Assisting Funded Projects



Professional Development for You!

Free classes → nnlm.gov/professional-development



Topic examples: PubMed for Librarians, Healthcare Trends, Classroom Assessment, Consumer Health Information, Data Visualization, Community Collaborations, Exploring Nutrition, Genetic Information, Graphic Medicine, and so much more!

Questions?

Allison Herrera

Technology & Communications Coordinator



Allison.Herrera@umassmed.edu



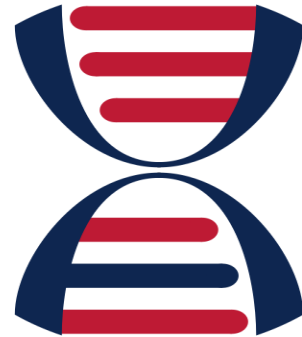
@AllisonKHerrera



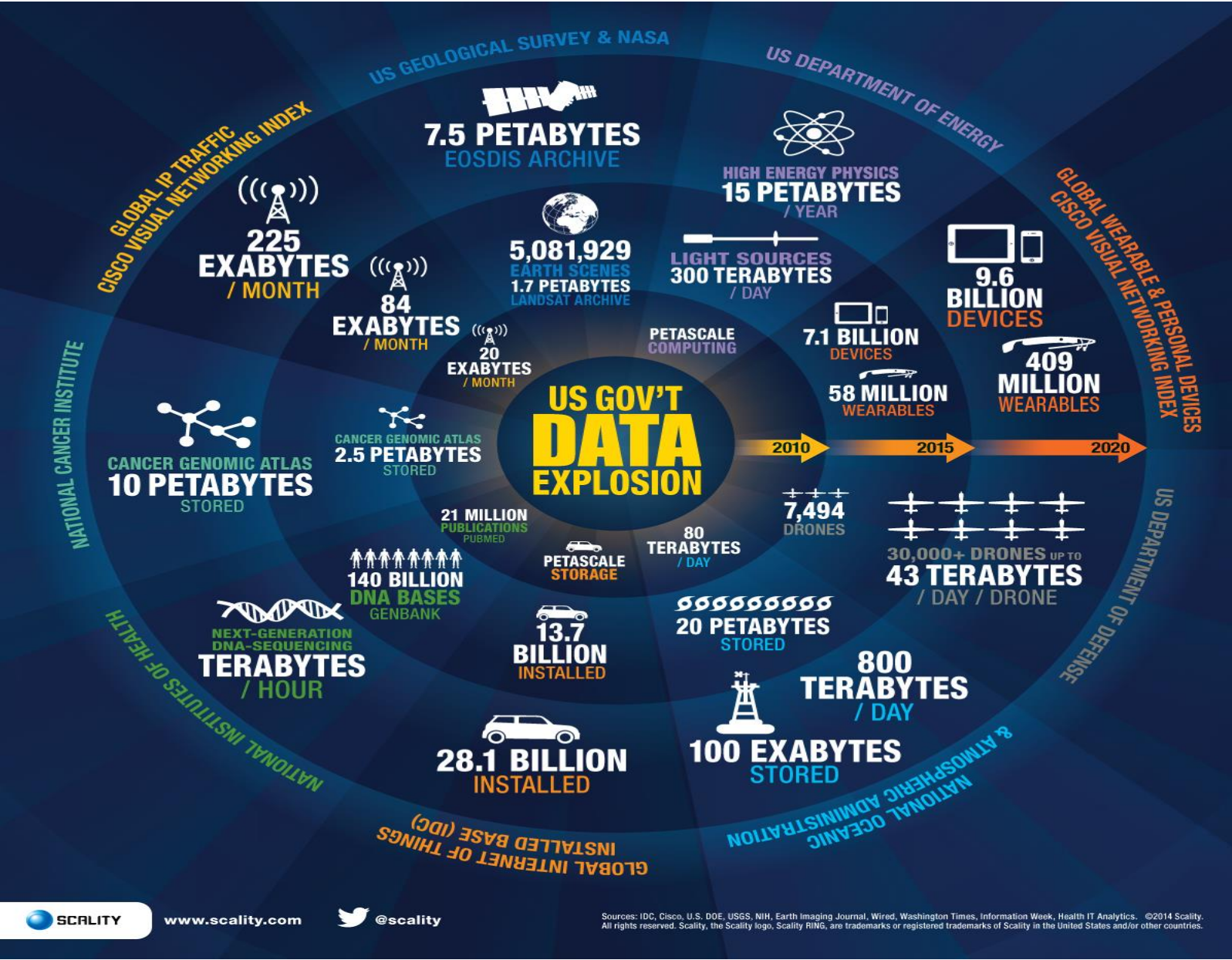
508-856-5979 (office)

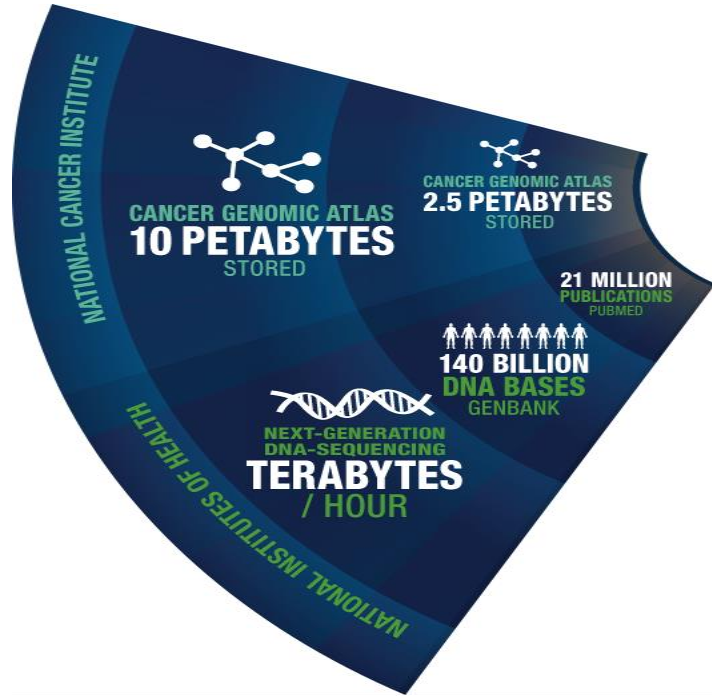


Bioinformatic Support at the Health Sciences Library

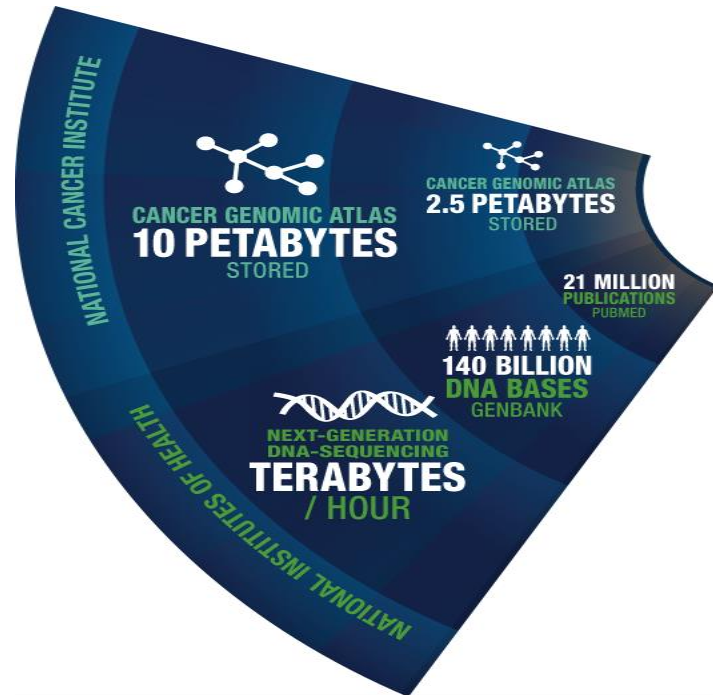


February 7, 2017
Jeffrey C. Oliver, PhD





Lots of data, but how are they actually used?



Example

How many genes are on each human chromosome?

Example

How many genes are on each human chromosome?

NCBI's RefSeqGene database has ~64,000 human
gene records...

Example

How many genes are on each human chromosome?

NCBI's RefSeqGene database has ~64,000 human
gene records...

...but there are only ~19,000 protein-coding genes
in the human genome

Example

How many genes are on each human chromosome?

1	2	3	4	5	6	7	8	12	13
#bin	name	chrom	strand	txStart	txEnd	cdsStart	cdsEnd	score	name2
0	NM_001276351	chr1	-	67092175	67134971	67093004	67127240	0	C1orf141
0	NM_001276352	chr1	-	67092175	67134971	67093579	67127240	0	C1orf141
0	NR_075077	chr1	-	67092175	67134971	67134971	67134971	0	C1orf141
0	NM_000299	chr1	+	201283451	201332993	201283702	201328836	0	PKP1
0	NM_001005337	chr1	+	201283451	201332993	201283702	201328836	0	PKP1
1	NM_001042682	chr1	-	8352403	8423687	8355086	8364133	0	RERE
1	NM_001042681	chr1	-	8352403	8817640	8355086	8656297	0	RERE
1	NM_012102	chr1	-	8352403	8817640	8355086	8656297	0	RERE2
1	NM_001281956	chr1	-	33513998	34165274	33519517	34165097	0	CSMD2
1	NM_052896	chr1	-	33513998	34165842	33519517	34165813	0	CSMD2
1	NR_038261	chr1	-	41847188	42035925	42035925	42035925	0	HIVEP3

Example

How many genes are on each human chromosome?

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#bin	name	chrom	strand	txStart	txEnd	cdsStart	cdsEnd	score	name2
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Example

How many genes are on each human chromosome?

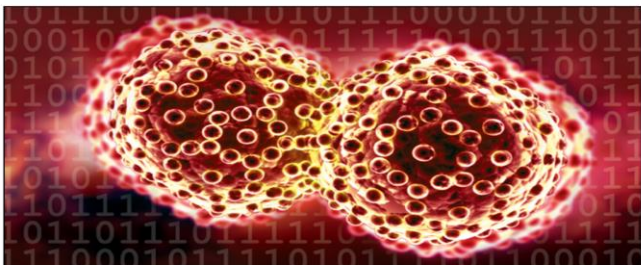
1	2
1995	chr1
714	chr10
1267	chr11
1002	chr12
312	chr13
590	chr14
568	chr15
803	chr16
1142	chr17
267	chr18
1380	chr19
1207	chr2

1	2
526	chr20
223	chr21
426	chr22
1039	chr3
722	chr4
848	chr5
1008	chr6
878	chr7
652	chr8
754	chr9
803	chrX
39	chrY



Galaxy

The future of health sciences: an
opportunity for libraries



A career in cancer research? Computational skills wanted

Cancer researchers are generating mounds of molecular data on tumor biology. Scientists with molecular and computational backgrounds are needed to move the growing field of precision oncology forward. Researchers with both skill sets, however, have a leg up. **By Gunjan Sinha**

DOI: 10.1126/science.opms.r1600163
sciencecareers.org **SCIENCE**

Creating the Future Biomedical Research Workforce

Frederick J. Meyers and Claire Pomeroy

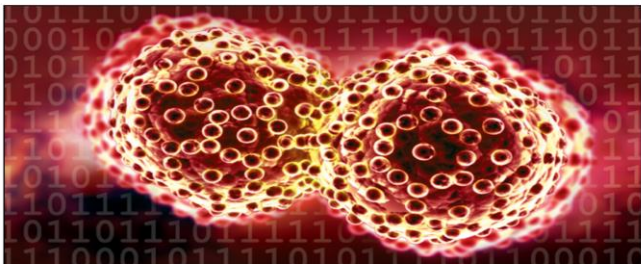
www.ScienceTranslationalMedicine.org 28 September 2011 Vol 3 Issue 102 102fs5



Big data biomedicine offers big higher education opportunities

John Darrell Van Horn^{a,b,1}

6322-6324 | PNAS | June 7, 2016 | vol. 113 | no.23 www.pnas.org/cgi/doi/10.1073/pnas.1607582113



A career in cancer research? Computational skills wanted

Cancer researchers are generating mounds of molecular data on tumor biology. Scientists with molecular and computational backgrounds are needed to move the growing field of precision oncology forward. Researchers with both skill sets, however, have a leg up. **By Gunjan Sinha**

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EMBRACING CHANGE

If we accept this broader charge for biomedical science, then workforce development requires new approaches:

...

(ii) New skills. Biomedical science trainees require a new set of core knowledge competencies, such as bioinformatics, statistics, the “omics,” nanotechnology, regenerative biology, economics, social and behavioral sciences, and communication.


```
> echo "Hello world!"  
Hello world!
```

Learn-r

A suite of lessons for learning the R programming language

Learn R

A collection of lessons for learning the R programming language. Generally designed for the novice, these lessons assume little background knowledge with R or programming in general. The majority of the lessons will be presented with the basic R console but

Introduction to R Graphing

Jeff Oliver

22 July, 2016

This brief tutorial will demonstrate how to create a basic plot in R from a text file of data. This introduction provides an entry point for those unfamiliar with R (or a refresher for those who are rusty). We will start with a very minimal piece of code and work our way up to code that automates the creation of 12 different pdf files, each with a different X-Y scatterplot.

Learning objectives:

- Gain familiarity with R
- Read data from a file
- Visualize data in a graph
- Understand the principle of control flow

In this tutorial, we will be using the 'gapm

Introduction to R Statistics

Jeff Oliver

16 September, 2016

An introduction to using the R statistics package and the RStudio interface.

Learning objectives

1. Read data from files and output results to files
2. Extract relevant portions of datasets
3. Run standard statistical tests in R, including Student's t , linear regression and analysis of variance

Setup

First we need to setup our development environment. We need to create two folders: 'data' will store the data we will be analyzing, and 'output' will store the results of our analyses.

```
dir.create(path = "data")
dir.create(path = "output")
```



CYVERSE™



®

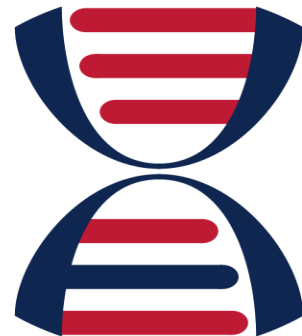
BIO5™
Institute

Questions?

Contact me at:

Jeff Oliver

jcoliver@email.arizona.edu





Annabelle V Nuñez
MEZCOPH Liaison Librarian
Research & Learning Department



About Annabelle

- Worked for non-profit arts agency
 - Neighborhood and cultural programming
- Community advocate & activist
- Previous experience integrated into librarianship

Community engagement and activism

City eyes three-tier garbage charges

Arizona Daily Star, The (Tucson, AZ) - Sunday, January 30, 2005

Author: Joe Burchell, ARIZONA DAILY STAR

Size of can would govern 'Pay As You Throw'

//////

When it comes to your garbage, the city is looking to lighten your wallet if you don't lighten your load.

In an effort to get Tucsonans to recycle and compost more - and throw away less - the city may offer customers three different rates, depending on how

Neighbors are leery of taping drug deals

Arizona Daily Star, The (Tucson, AZ) - Sunday, September 17, 2006

Author: Rob O'Dell, ARIZONA DAILY STAR

Leal's office loans camera; some warn it's dangerous

//////

Councilman Steve Leal spent \$549 in city money on video-recording equipment for residents in his South Side ward to record drug deals.

Area gets speed bumps in wake of 2 kids' deaths

Friday, August 25th, 2006



Tucson Citizen

New speed bumps and other safety improvements slow traffic in a Southwest Side neighborhood where two children were killed in a 2001 automobile accident.

National City neighborhood residents asked the county for the improvements after the deaths of Valeria Riley, 10, and Manuel Escarcega, 9, said Annabelle Nuñez, a past president of the neighborhood association.

A dedication ceremony for the improvements, funded with \$150,000 in county bond proceeds, is scheduled for Saturday. The work included installing two fountains and refinishing a pedestrian bridge at Rodeo Wash Park.

The screenshot shows the Arizona Daily Star website. The header includes the newspaper's name, the website URL (www.azstarnet.com), and a price tag of 99¢ per week. A navigation menu is visible with options for Home, News, Sports, Opinion, Entertainment, and Lifestyles. Below the menu, there are links for LOCAL NEWS, NATIONAL, WORLD, BUSINESS, BORDER, CRIME, EDUCATION, ENVIRONMENT, and SCIENCE. The main article is titled "City limits sale of gas canisters used to get high" and is dated Saturday, November 28, 2009. The article text describes how Annabelle Nuñez noticed shiny metal cartridges in her neighborhood and how she wanted the Tucson City Council to take action to restrict access to them. A small photo of Annabelle Nuñez is included in the article.

Mel & Enid Zuckerman College of Public Health (MEZCOPH)

- Established in 2000, (embedded in 2007)
- Top 5 colleges in American Indian and Hispanic students and graduates
- Academic divisions
 - Community, Environment and Policy
 - Epidemiology and Biostatistics
 - Health Promotion Sciences

MEZCOPH (*con't*)

- Bachelor of Science in Public Health (BSPH)
- Master of Public Health (MPH) Program
 - Seven concentrations
- Doctorate in Public Health (DrPH)
- Dual Degree Programs
- Certificate Programs
- Centers and Offices



Orientation & Integration

- Networking with the constituency
 - College orientation and course/class
 - Listserv, access to dept intranet, committee involvement, projects/programs, meetings, college events, seminars
 - Social functions
 - College of Public Health Appointment – Lecturer

Orientation & Integration (*con't*)

- Subject specialist
 - Membership to APHA
 - Listservs
 - College presentations, seminars
 - Webinars,
 - Public health literature

Services - Faculty

- Curriculum support
 - Course integrated instruction
- Research support & integration
 - Grant opportunities, literature searches, information services and training included in grant
- Activity - Systematic Reviews

The screenshot displays the BMJ Open article page for a systematic review and meta-analysis. The page includes a navigation bar with 'BMJ Journals' and 'BMJ Open' branding. The article title is 'Prenatal exposure to cannabis and maternal and child health outcomes: a systematic review and meta-analysis'. The authors listed are J K L Gunn, C B Rosales, K E Center, A Nuñez, S J Gibson, C Christ, and J E Ehiri. The abstract section provides a summary of the study's objective, data sources, study selection, data extraction and synthesis, main outcomes and measures, and results. The results section states that 24 studies were included in the review, and the meta-analysis demonstrated an increase in the odds of anaemia and a decrease in birth weight for infants exposed to cannabis in utero compared to those whose mothers did not use cannabis during pregnancy.

Public health Research [Home](#) / [Archive](#) / [Volume 6, Issue 4](#)

BMJ Journals
BMJ Open

Article Text

Article info

Citation Tools

Share

Responses

Article metrics

Alerts

Prenatal exposure to cannabis and maternal and child health outcomes: a systematic review and meta-analysis

J K L Gunn¹, C B Rosales², K E Center³, A Nuñez⁴, S J Gibson⁵, C Christ⁶, J E Ehiri⁵

Author affiliations +

Abstract

Objective To assess the effects of use of cannabis during pregnancy on maternal and fetal outcomes.

Data sources 7 electronic databases were searched from inception to 1 April 2014. Studies that investigated the effects of use of cannabis during pregnancy on maternal and fetal outcomes were included.

Study selection Case-control studies, cross-sectional and cohort studies were included.

Data extraction and synthesis Data synthesis was undertaken via systematic review and meta-analysis of available evidence. All review stages were conducted independently by 2 reviewers.

Main outcomes and measures Maternal, fetal and neonatal outcomes up to 6 weeks postpartum after exposure to cannabis. Meta-analyses were conducted on variables that had 3 or more studies that measured an outcome in a consistent manner. Outcomes for which meta-analyses were conducted included: anaemia, birth weight, low birth weight, neonatal length, placement in the neonatal intensive care unit, gestational age, head circumference and preterm birth.

Results 24 studies were included in the review. Results of the meta-analysis demonstrated that women who used cannabis during pregnancy had an increase in the odds of anaemia (pooled OR (pOR)=1.36: 95% CI 1.10 to 1.69) compared with women who did not use cannabis during pregnancy. Infants exposed to cannabis in utero had a decrease in birth weight (low birth weight pOR=1.77: 95% CI 1.04 to 3.01; pooled mean difference (pMD) for birth weight=109.42 g: 38.72 to 180.12) compared with infants whose mothers did not use cannabis during pregnancy. Infants exposed to cannabis in utero were also more likely to need placement in the neonatal intensive care unit compared with infants whose mothers did not use cannabis during pregnancy (pOR=2.02: 1.27 to 3.21).

Services - Students

- Customized workshops
 - Research skills and resources
 - PubMed, PsychINFO, PHPartners, EndNote Online/RefWorks
- Grant opportunities or research projects
- Individual consultations
 - Student internships
 - Systematic reviews, scoping reviews



Thank you!
Questions or follow-up

anunez@email.arizona.edu

(520)626-7508

Who I am



Brenda Linares, MLIS, AHIP
Outreach Librarian and Coordinator of Research
Assistants
UNC Chapel Hill Health Sciences Library

Education

MLIS, University of California, Los Angeles (UCLA)
BS in Finance, California State University, Northridge
(CSUN)

MBA in progress, North Carolina State University (NCSU)



NC STATE UNIVERSITY



UNC
HEALTH SCIENCES LIBRARY

National Library of Medicine (NLM) Associate Fellowship

- <https://www.nlm.nih.gov/about/training/associate/>
- a one-year postgraduate training fellowship at the NLM in Bethesda, Maryland, The program is designed to provide a broad foundation in health sciences information services, and to prepare librarians for future leadership roles in health sciences libraries and in health services research.



U.S. National Library of Medicine



UNC
HEALTH SCIENCES LIBRARY

What do I do as a Health Sciences Librarian?

- Training/Instructor
- Special Projects
 - NC Health Info
 - Global Health
- Co-Liaison to the School of Public Health
- Collaborate with the community and community organizations
 - Public Libraries
 - Community Colleges
- Users
 - Students
 - Researchers
 - Faculty
 - Nurses
 - Doctors
 - Librarians
 - The public



Health Literacy

- Is the degree to which individuals have the capacity to obtain, process, and understand **basic health information** and **services needed to make appropriate health decisions**.
- Health literacy is dependent on individual and systemic factors:
 - Communication skills of lay persons and professionals
 - Lay and professional knowledge of health topics
 - Culture
 - Demands of the healthcare and public health systems
 - Demands of the situation/context

Outreach Services

- Partnership with community colleges
- Partnership with Public Libraries
- Consumer health and health literacy



Funding Opportunities/Training

- National Library of Medicine (Regional Medical Libraries)
- <https://nnlm.gov/regions>



<http://www.nchealthinfo.org/>



The screenshot shows the homepage of NC Health Info. At the top left is a green map of North Carolina with the text "NC Health Info" and "Información de Salud para Usted". To the right is a search bar. Below the header is a blue navigation bar with "Todos los temas", "Acerca de Nosotros", and "English". The main content area features several green-bordered boxes with icons and text:

- La gestión de su salud**: Aprenda sobre Cómo elegir un médico, seguros, registros médicos, y mucho más.
- Temas de Salud**: Información sobre física y condiciones de salud mental.
- Mantenerse Saludable y Segura**: Los temas incluyen ejercicio, el estrés, Prevención de Caídas y más.
- Medicamentos y terapias**: Información sobre Drogas, Alternativa Terapias y Pruebas de Laboratorio.
- Gente**: Información para Personas Mayores, Veteranos y Mujeres.

There are also two call-to-action boxes: one with a question mark icon saying "¡Preguntanos! Nuestros bibliotecarios están dispuestos a ayudar" and another with a tablet icon saying "Noticias de la salud". A central image shows a stethoscope on a medical chart with the text "La gestión de su salud" and "Aprender a manejar su atención médica". At the bottom left is a "HON @ CODE CERTIFIED 01/2017" logo with the text "Nosotros subscribimos os Principios del código HONcode. Compruébelo aquí".

- Assist with consumer health questions
- Seek out more consumer health information resources in Spanish
- Promote NC Health Info to people of North Carolina



Other Responsibilities: Grants

Citation Managers



Citation Management



ENDNOTE®



zotero



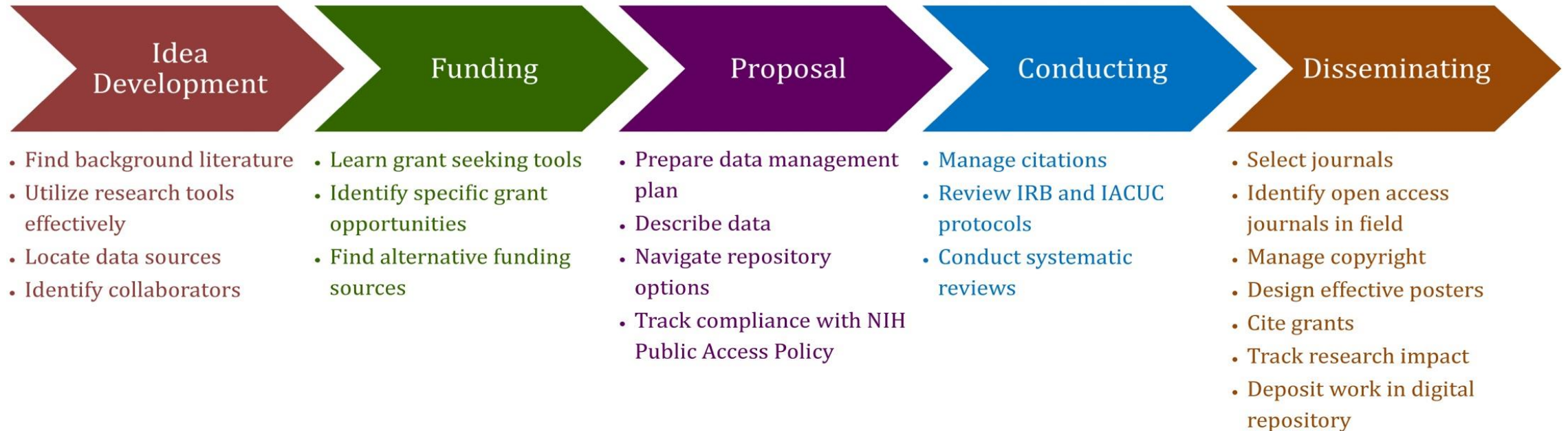
UNC
HEALTH SCIENCES LIBRARY

UNC Libraries Research Hub

<http://library.unc.edu/hub/>

The UNC Libraries Research Hub provides spaces, technology, and expertise to assist with all phases of research.

The Hubs form an interdisciplinary network, complete with partners across campus.



Assistance with the Research Process



UNC
HEALTH SCIENCES LIBRARY

Medical Library Association

<http://www.mlanet.org/>

The screenshot shows the homepage of the Medical Library Association (MLA). At the top, there are links for 'Contact Us', 'Donate', 'Advertise', and social media icons for Twitter, Facebook, and LinkedIn. Below this is the MLA logo and the text 'MEDICAL LIBRARY ASSOCIATION'. A navigation bar contains several menu items: 'ABOUT', 'JOIN MLA', 'COMMUNITIES', 'PROFESSIONAL DEVELOPMENT', 'MEETINGS', 'ADVOCACY', 'PUBLICATIONS', and 'FOR PATIENTS'. The 'COMMUNITIES' and 'ADVOCACY' items are highlighted with red boxes. A search bar is located on the right side of the navigation bar. Below the navigation bar is a large banner for 'New digital JMLA' with the text 'With a new online presence, JMLA will have faster publishing and more features.' and 'Sponsored by Wolters Kluwer'. To the right of the banner is an 'Advertisers' section featuring a promotional graphic for the American Academy of Pediatrics (AAP) with the text 'Cutting-edge pediatric resources exclusively from the AAP!' and 'Learn more about the AAP eJournal Collection aaplibrary.org'. Below the banner and advertisers are three columns of text: 'I am' (listing roles like MLA Member, Health Information Professional, etc.), 'Join MLA' (describing the benefits of membership), and 'Aim for Excellence' (highlighting the quality of library services). At the bottom left, there is a 'Full Speed Ahead and Other News' section with the 'MLA NEWS' logo and a link to 'Select MLA News articles are public. Login for a display of all articles available to MLA members.' At the bottom right, there is a 'Find a Job' section with a 'Career Center' link and two job listings: 'Reference Librarian, Unit Manager' and 'Director, Library Services'.



**Please feel free to email me
I will be happy to talk to you**

Brenda Linares

blinares@email.unc.edu

919-962-0801



UNC
HEALTH SCIENCES LIBRARY

Outreach at the University of Arizona

Yamila El-Khayat



WHY?

- Land Grant Institution



Festivals/ Fairs



Tucson Festival of Books



Phoenix Disability Fair

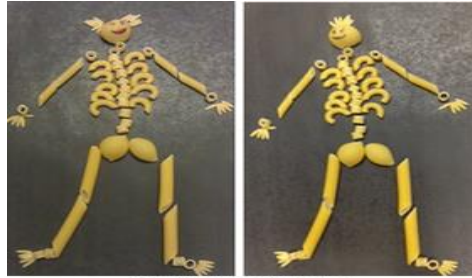


Flagstaff STEM Fair



Miami AZ STEM Fest

K -12 Activities



Mr. & Mrs. Skeletoni



Littletoni



High school students learning about health information

KidsHealth
CELEBRATING 20 YEARS

for Parents
Knowledge, advice, and comfort
Para padres

for Kids
Homework help and how the body works
Para niños

for Teens
Answers, advice, and straight talk
Para adolescentes

for Educators

Nemours | About KidsHealth | Partners | Privacy Policy & Terms of Use

View: Mobile | Desktop

U.S. National Library of Medicine
MedlinePlus
Trusted Health Information for You

Search MedlinePlus [GO]

About MedlinePlus Site Map FAQs Contact Us

Health Topics Drugs & Supplements Videos & Tools **Español**

Share MedlinePlus [Facebook] [Twitter] [Google+]

Health Topics
Find information on health, wellness, disorders and conditions

Drugs & Supplements
Learn about prescription drugs, over-the-counter medicines, herbs, and supplements

Videos & Tools
Discover tutorials, health and surgery videos, games, and quizzes

Medical Encyclopedia
Articles and images for diseases, symptoms, tests, treatments

Medical Dictionary from Merriam Webster
Look up in Dictionary [GO]

Do you know the risks of high blood pressure?
Learn how to minimize them on our **High Blood Pressure** page.

Today's Health News
'Halo' Effect Common After Lasik Eye Surgery
Another Miami Neighborhood Now Zika-Free
Low-Carb Diet May Aid Your Metabolism
More health news

Clinical Trials
Search ClinicalTrials.gov for drug and treatment studies.

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Sign up for MedlinePlus email updates
Enter email address [GO]

NIH MedlinePlus Magazine
Read the latest issue

CDC Centers for Disease Control and Prevention
CDC 24/7: Saving Lives. Protecting People™

BAM! Body and Mind

BAM! Body and Mind
Diseases
Food and Nutrition
Physical Activity
Your Safety
Your Life
Your Body
Teacher's Corner
Game Room
Get Email Updates

FEATURE ZONE
(Please click on a tab below to see the current features)

Immune Platoon **Bully Roundup** Physical Activity H2O Smartz

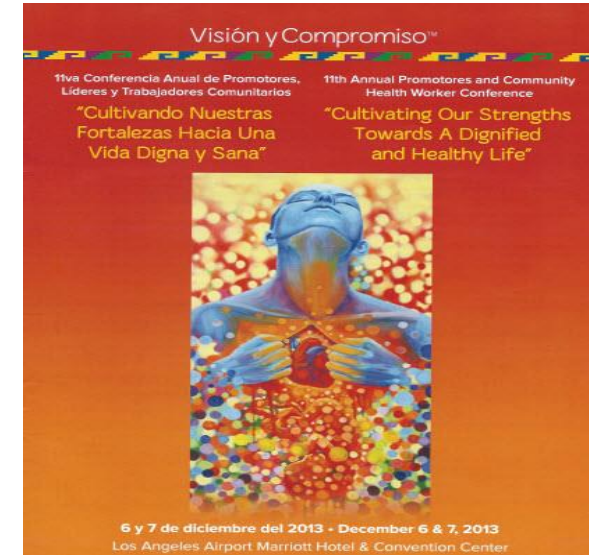
You're at the right place! BAM! Body and Mind has everything you need to know about all the stuff that matters.

THE IMMUNE PLATOON

U.S. Mexico Border/ Spanish Speakers



Left to Right: Teresa Niño, Yamila El-Khayat and Alejandra Gepp.



National Promotoras and Community Health Workers Conference
Promotores Binational Conference



Promotoras posing for a picture during a short break



Rural Communities



Ft. Defiance Indian Hospital



Canyon de Chelly
Chinle



Az Rural Health Conference

NCAI 69th Annual Convention and Marketplace



**National
Congress of
American
Indians**



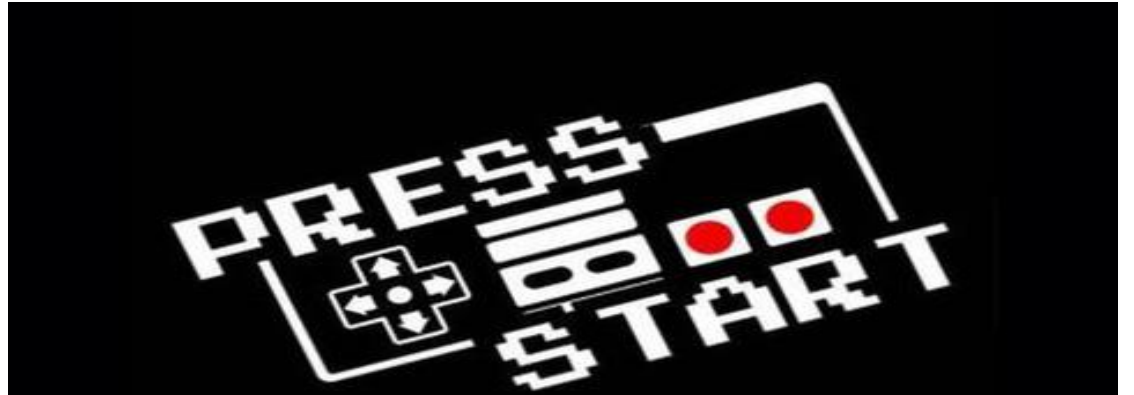
Seattle

Outreach Data

- 2011-Present
 - 185 events
 - 12120 people reached

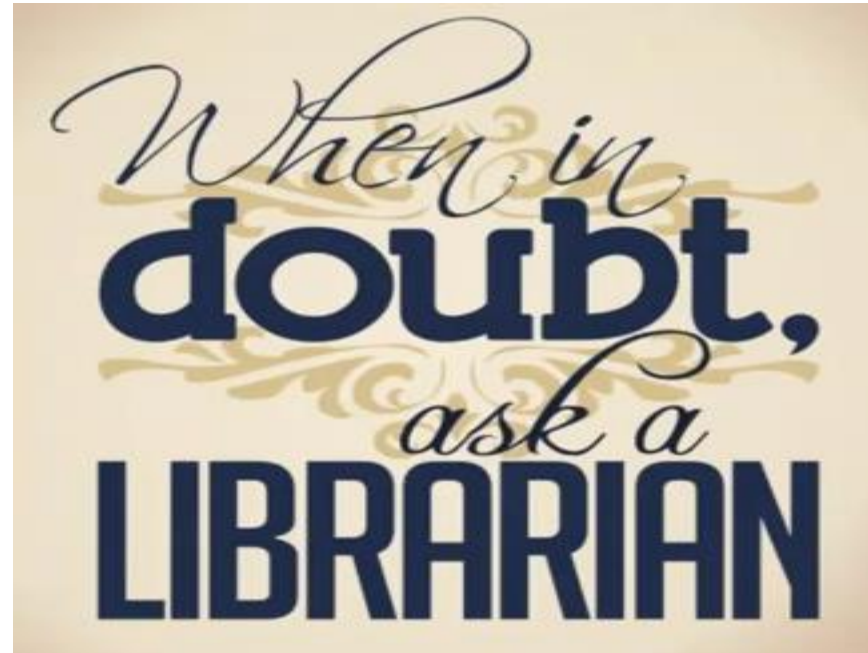


Future Directions



Thank you

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*Thank
you*

**Gwendolyn Prellwitz
at ALA ODLOS, for
facilitating and
making this
partnership happen!!**

