

# Concevoir son poster scientifique

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Conseils & Outils

# À propos

- Viet Jeannaud - ingénieur pédagogique [Urfist Méditerranée](#) (Université Côte d'Azur)
- Conception et réalisation de formations en ligne - formateur

# Poster scientifique

- Outil de publicisation - promotion
- Résumé visuel d'un travail de recherche
- Capturer l'attention – se démarquer
  - Amorcer les discussions – être mémorable

Une séance d'affichage classique lors de la conférence de 2014 de l'Union géophysique américaine (AGU). NASA AMES (source : <https://www.forbes.com/>)

# Poster scientifique

## Exercice difficile

- Contexte : « concurrence », temps d'attention, support
- Travail sur le fond : synthétiser un sujet complexe
- Travail sur la forme : mettre en valeur ce sujet

Une séance d'affichage classique lors de la conférence de 2014 de l'Union géophysique américaine (AGU). NASA AMES (source : <https://www.forbes.com/>)

# Plan

- Conseils pour la conception d'un poster
- Logiciels de production et templates

# Conseil n°1

Analyser son contexte

# Analyser son contexte

- Ressources et contraintes ?
- Sujet ?
- Public ?
- Pourquoi ?



# Conseil n°2

Travailler le fond : synthétiser - simplifier

# Travailler le fond

## 1. Expliquer en une phrase

quoi – pourquoi – comment

Mon étude porte sur \*sujet\* , afin de répondre à \*problématique\* , à travers la mise en place de \*méthode\*

# Travailler le fond

1. Expliquer en une phrase
2. Établir le plan
  - Espaces à réserver sur l'affiche

# Travailler le fond

- 1. Expliquer en une phrase**
- 2. Établir le plan**
  - Espaces à réserver sur l'affiche

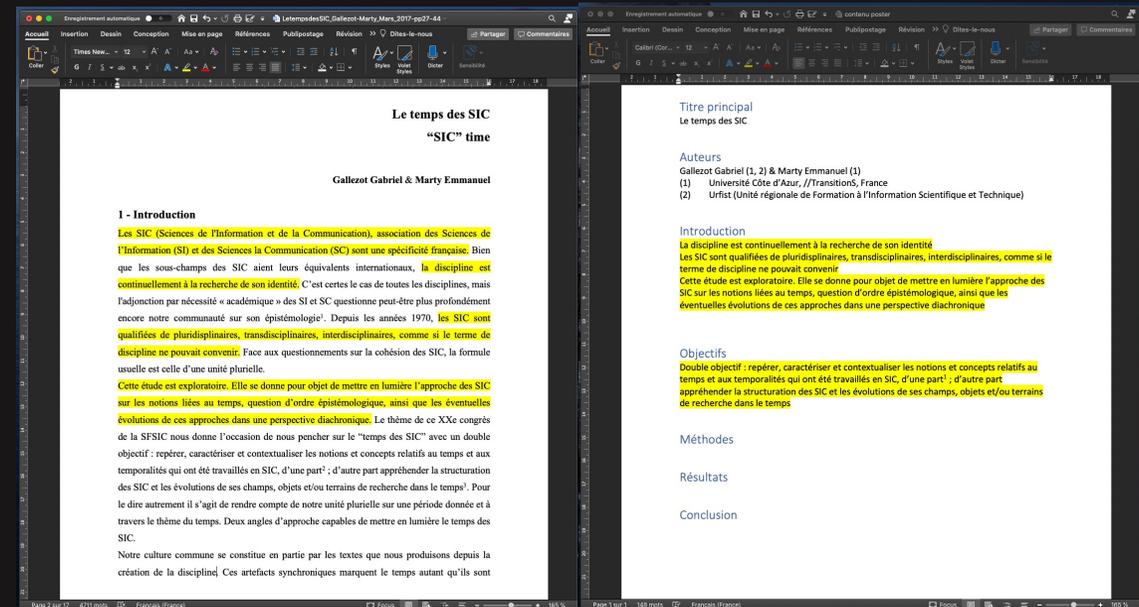
Exemple de plan générique

- Titre principal
- Info auteurs et institutions
- Logos
- Introduction
- Objectifs
- Méthodes
- Résultats
- Conclusion

\* D'autres parties peuvent être obligatoires (résumé, remerciements, bibliographie...)

# Travailler le fond

1. Expliquer en une phrase
2. Établir le plan
3. Sélectionner le contenu
  - Texte + données graphiques



# Travailler le fond

**1. Expliquer en une phrase**

**2. Établir le plan**

**3. Sélectionner le contenu**

**4. Simplifier**

- Phrases simples (sujet – verbe – complément) avec un style direct
- Complément d'information à l'oral, via des liens
- Titres brefs et explicites, potentiellement plus accrocheur
- Utiliser des listes à puce

# Travailler le fond

1. Expliquer en une phrase
2. Établir le plan
3. Sélectionner le contenu
4. Simplifier
5. **500 – 1 000 mots**
  - Améliore la lisibilité
  - Aère la composition
  - Facilite la conception graphique

# Conseil n°3

Produire le poster sur le logiciel avec lequel on est le plus à l'aise

# Logiciels

## Édition – retouche d'image



Adobe Photoshop



[Gimp](#)

## Mise en page



Adobe InDesign



[Scribus](#)

## Édition – création dessin



Adobe Illustrator



[Inkscape](#)

## Outils en ligne



[Canva](#)



[Crello](#)

# Logiciels

## PowerPoint

- Très répandu, le plus utilisé
- Banque d'images et icônes
- Retouche d'image
- Fonction « idées de conception »
- Taille du document paramétrable
- Export PDF

# Templates

Modèles « prêts à l'emploi »



Logo de votre établissement

## Titre de l'affiche

Nom de l'auteur (Prénom Nom)

Coordonnées de l'auteur (Université du Québec à ...), Québec, Canada

N'exécutez pas 2 lignes

Coordonnées de l'événement

**1- Résumé**

Résumez le contexte ou la problématique de recherche.

**3- Analyse et résultats**

Utilisez les polices de caractères sans empattements

Helvetica  
Arial

**6- Synthèse/Conclusion**

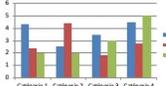
(ou recommandations)

**2- Méthodologie**

(ou question de recherche)

**4- Illustration** (image, graphique, schéma, photo ou autre)

Une image vaut mille mots. L'illustration doit appuyer le propos. Elle doit informer le lecteur !



Légende de l'illustration

**7- Bibliographie** (ou références)

Auteur, Année, Titre, Source, Page...  
Respectez les normes rédactionnelles de votre département.

**5- Illustration**



Légende de l'illustration

**8- Remerciements et contact**

N'hésitez pas à remercier ceux qui vous ont fourni de l'aide !

@ courriel et site Internet

<https://ptc.quebec.ca/affiche/creation/modeles-telechargeables>

**The relationship between disgust levels and sexual behaviors as moderated by self-reported pathogen exposure**

Jessica K. Hlay, Graham Albert, Zaynep Senaldi, Steven Amocky, Carolyn R. Hodges-Simeon

**INTRO**

- Behavioral Immune System
  - Works to avoid pathogen first, rather than fighting infection after
- Environmental inputs should influence disgust sensitivity

**METHODS**

- N = 322 (160, 162)
- Perceived pathogen exposure, national disease prevalence (OurWorldInData.org), TDOS (disgust), SDI R (sociosexuality)
- Structural Equation Modeling

**RESULTS**



**DISCUSSION**

- Further support of the Behavioral Immune System
- Disgust sensitivity is influenced by environmental inputs, specifically self-reported environmental pathogen
- Disgust is one mechanism which restricts successful behavior, possibly to prevent infection

**As environmental pathogen load increases, so does sexual disgust. This is associated with more restricted casual sex attitudes and behaviors.**



**Other Background Info**

- ↑ Environmental harshness = ↓ disgust
- ↑ Self-report health = ↓ disgust
- ↑ Sexual disgust = ↓ short-term mating strategy
- ↑ Disease threat = ↓ short-term mating, ↓ future promiscuity, ↑ long-term mating

Pathogen	Outcome	B	SE	p	B
Disease Prevalence	Infection Exposure	.088	.016	<0.001	.34
Infection exposure	Sexual Disgust	.03	.001	<0.001	.39
Disgust	Sexual Disgust	-.004	.001	.004	.18
Infection exposure	Pathogen Disgust	.01	.004	.008	.21
Disgust	Pathogen Disgust	-.01	.001	<0.001	-.42
Pathogen Disgust	SDI Attitude	.17	.13	.59	.08
Sexual Disgust	SDI Behavior	-.16	.1	<0.001	-.53
SDI Attitude	SDI Behavior	.36	.05	<0.001	.49

**Structural Equation Model Fit indices**

$\chi^2(201) = 556.38, p < .0001, SRMR = .12, RMSEA = .08, CFI = .88, TU = .863$

**Limitations**

- Self-reported environmental pathogen load
- Discuss prevalence data at a national level
- mTurk participants still not necessarily representative
- What other factors influence variation in disgust sensitivity?






Take a picture to download more information!

jesshlay@gmail.com  
@jesshlay

<https://osf.io/6ua4k/>

# Conseil n°4

Travailler la forme : s'inspirer, peaufiner le graphisme

# Analyse critique

- Poster fictif portant sur l'efficacité de soins pédiatriques
- Modifications
- Conseils et outils graphiques

**Centre Hospitalier Universitaire de Nice**

**EXEMPLE D'ÉTUDE FICTIVE PORTANT SUR L'EFFICACITE DE SOINS PÉDIATRIQUES**

A. DUPONT puéricultrice, M. JEANNAUD puéricultrice, A. MARTIN puéricultrice cadre de santé, C. MORIN cadre supérieur sage-femme  
PÔLE FEMME-MERE-ENFANT - CHU NICE

UNIVERSITÉ CÔTE D'AZUR

**Introduction**  
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**Objectifs**  
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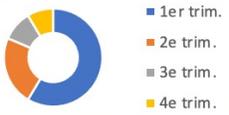
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**Résultats**

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## EXEMPLE D'ÉTUDE FICTIVE PORTANT SUR

### L'EFFICACITE DE SOINS PÉDIATRIQUES

A. DUPONT puéricultrice, M. JEANNAUD puéricultrice, A. MARTIN puéricultrice cadre de santé, C. MORIN cadre supérieur sage-femme  
PÔLE FEMME-MÈRE-ENFANT - CHU NICE



#### Introduction

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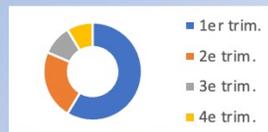
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#### Matériel et méthode

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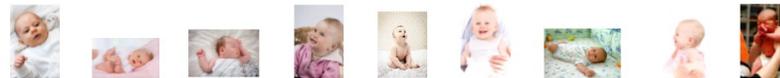
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## Commencer en noir et blanc

- Choix de couleurs en fin

## Éviter de mettre trop d'encadrés

- Certains éléments (texte à mettre en exergue, descriptif)

## EXEMPLE D'ÉTUDE FICTIVE PORTANT SUR



### L'EFFICACITE DE SOINS PÉDIATRIQUES

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#### Conclusion

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## Exemple d'étude fictive portant sur l'efficacité de soins pédiatriques



A. DUPONT puéricultrice, M. JEANNAUD puéricultrice, A. MARTIN puéricultrice cadre de santé, C. MORIN cadre supérieur sage-femme  
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#### Introduction

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## Travailler la typographie

- Pas de casse en MAJUSCULE ni de texte souligné
- Hiérarchiser avec :
  - Différentes **grasses**
  - Titre : 84 pt
  - Section : 36 pt
  - Texte : 24 pt
- Aligner à gauche ☐
- Chercher des polices
  - [Font Squirrel](#)
  - [Google Fonts](#)
- Privilégier le sans sérif (potentiellement les titres en sérif) ☐
- 2 polices max

**EXEMPLE D'ÉTUDE FICTIVE PORTANT SUR  
L'EFFICACITE DE SOINS PÉDIATRIQUES**

*A. DUPONT puéricultrice, M. JEANNAUD puéricultrice, A. MARTIN puéricultrice cadre de santé, C. MORIN cadre supérieur sage-femme  
PÔLE FEMME-MERE-ENFANT - CHU NICE*




**Introduction**  
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**Conclusion**  
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**Exemple d'étude fictive portant sur l'efficacité de soins pédiatriques**

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**Introduction**  
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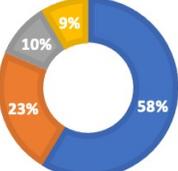
**Matériel et méthode**  
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**Processus en 3 étapes**

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**Conclusion**  
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## Valoriser les images

- Pas trop petites
- Attention à la qualité

## Utiliser des icônes avec parcimonie

- Mettre en avant certains points (processus)
- Dynamise la composition

## Préserver l'homothétie des images

## Aligner les éléments les uns par rapport aux autres

## Agencer le contenu pour faciliter la lecture



## EXEMPLE D'ÉTUDE FICTIVE PORTANT SUR

### L'EFFICACITE DE SOINS PÉDIATRIQUES

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#### Introduction

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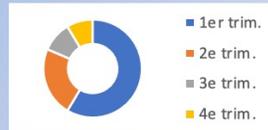
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## Exemple d'étude fictive portant sur l'efficacité de soins pédiatriques

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PÔLE FEMME-MERE-ENFANT - CHU NICE



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#### Matériel et méthode

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#### Processus en 3 étapes



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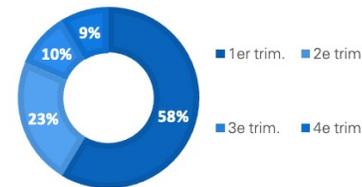
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#### Résultats

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#### Conclusion

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## 2 ou 3 couleurs max

- Combinaison de couleurs

• <https://colors.co/>

- Outil pipette

• [Add-on Chrome](#)

• [Add-on Firefox](#)

- Harmoniser les couleurs des graphiques si possibles avec vos choix de couleurs

## Harmoniser les logos

- Trouver plusieurs versions des logos (png, version blanc, carré, rectangle...),
- Sinon les mettre dans un bandeau à fond blanc

# La 1<sup>ère</sup> chose à faire

## Inspiration visuelle

- Interroger des banques d'images
  - [Google Images](#)
  - [Shutterstock](#)
  - [Freepik](#)
  - [Adobe Stock](#)
  - [Pixabay](#)
  - [Photos for class](#)
- Regarder les images et graphiques déjà en possession

# La 1<sup>ère</sup> chose à faire

## Inspiration visuelle Élément accrocheur

- Image de fond ?

### Unravelling the pathogenesis of chytridiomycosis

Nicholas C. Wu<sup>1\*</sup>, Rebecca L. Cramp<sup>1</sup>, Michel E. B. Ohmer<sup>1,2</sup>, & Craig E. Franklin<sup>1</sup>

<sup>1</sup>School of Biological Sciences, The University of Queensland, QLD 4072, Australia; <sup>2</sup>Department of Biological Sciences, University of Pittsburgh, PA 15260, USA  
\*nicholas.wu@uq.edu.au

#### INTRODUCTION

- Frogs infected with the fungal pathogen *Batrachochytrium dendrobatidis* (*Bd*) show skin disruption.
- Increasing rate of skin shedding (sloughing) regulates *Bd* growth. However, the act of sloughing also alters skin function.
- The interaction between increased sloughing & chytridiomycosis on skin function may be detrimental to the animals health.

#### AIMS

- Determine whether *Bd* directly inhibits skin ion transport proteins.
- Establish if increased sloughing frequency contributes to further disrupt the skin when infected.

#### METHODS

- Subjects: Green tree frogs (*Litoria caerulea*)  
Treatments: Treatments (uninfected or infected), groups (intermolt or sloughing).  
Measured:
- Rate of whole animal ion loss (Conductivity)
  - *In-vitro* skin electrophysiology (Ussing chamber)
  - Protein abundance of skin ENaC and NKA (Western blotting)
  - Gene expression of skin ENaC and NKA (qPCR)

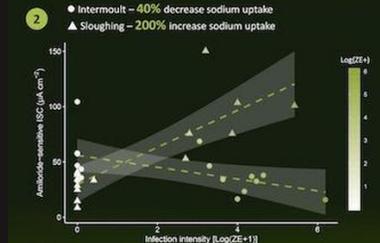
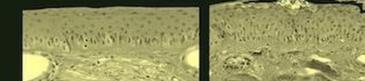


Fig. 2 | Cutaneous sodium uptake (as amiloride-sensitive short-circuit current ( $\mu\text{A cm}^{-2}$ )) over infection intensity ( $\log_{10}(\text{ZE}+1)$ ). Shaded area around regression lines represent 95% confidence intervals, & data presented as data points for each animal (● Intermolt, ▲ Sloughing).

#### CONCLUSION

- *Bd* directly disrupts the ENaC proteins responsible for sodium uptake.
- Sloughing seems to provide a temporary relief, establishing skin function (seen in sodium uptake, & increased NKA).
- However, this restoration is brief, & the proteins are destroyed as *Bd* re-establishes on the skin.
- This study highlights why sloughing can be detrimental for susceptible species that develop high infection, & may accelerate disease progression.

#### RESULTS

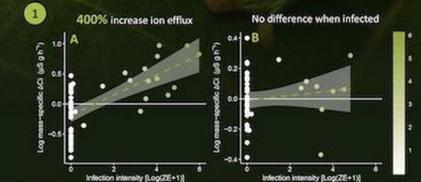


Fig. 1 | Relationship between mass-specific ion loss (A:  $\mu\text{g g}^{-1} \text{h}^{-1}$ ) & infection intensity ( $\log_{10}(\text{ZE}+1)$ ) during (A) the intermolt & (B) sloughing. Horizontal line denotes mean residual, shading around regression line represents 95% confidence interval, & data presented as individual points for each animal.

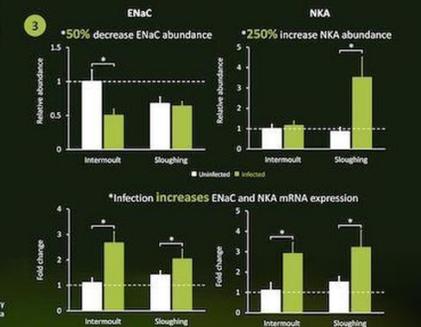


Fig. 3 | Relative protein abundance (top) & mRNA expression (bottom) of epithelial ion transporters ENaC (left) & NKA (right) in the ventral skin of infected and uninfected *L. caerulea* during intermolt & sloughing period. Data presented as the mean  $\pm$  s.e. fold change relative to uninfected intermolt groups (each line), & \* represent significant differences between treatments.

#### Acknowledgements

Research Training Program scholarship (funding)  
Peter Rankin Trust Fund for Herpetology (funding)  
University of Queensland (ethics approval)  
Australian Government (Permit approval)



Nicholas Wu, University of Sydney, Australia  
<https://wunicholas.wixsite.com/home/publications>



# La 1<sup>ère</sup> chose à faire

## Inspiration visuelle Élément accrocheur

- Image de fond ?
- Graphiques ?
- Mise en page ?
- Ex. d'affiches scientifiques sur Pinterest

### Efficiency of Fourier Harmonic Analysis in Classifying Bulls According to Fertility: In Vitro Fertilization Assay

Danilda Hufana-Duran<sup>1,2,5\*</sup>, Herren Donna Miguel Daag<sup>2,3</sup>, Matt Daniel Peralta<sup>1</sup>, Emma Venturina<sup>1</sup>, Felomino V. Mamua<sup>1,2,4</sup>, Peregrino G. Duran<sup>1,2,3</sup>, Fe Venturina<sup>1</sup>, Hernando Venturina<sup>1</sup>, and John Parrish<sup>5</sup>

#### Introduction

Success of artificial insemination (AI) needs to improve. Donor bulls of semen must be high fertile. Fourier harmonic analysis (FHA) is a computer aided image analysis that measures the subtle shape differences in sperm nuclei by analyzing the nuclei shape expressed as Fourier harmonic amplitudes or HA (Fig. 1). It uses staining and epifluorescence microscopy techniques to capture the sperm images (Fig. 2a-d) and Image J Software and SAS for analysis (Fig. 3). FHA was found effective in classifying high and low fertile boars, stallion and cattle bulls (Ostermeier et al., 2001. J. Androl. 22(4):595-603).

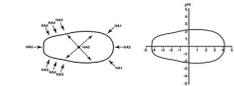


Fig. 1. Fourier harmonic amplitudes (HA) and sperm nuclear measurement

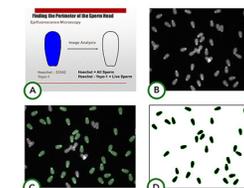


Fig. 2. Sperm images for FHA. A) Description of image preparation and analysis. B) Hoechst image. C) Sperm samples captured for Image J analysis. Overlapping and dead sperm are not included. D) Yoyo image - only the live sperm.

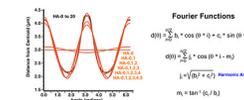


Fig. 3. Image analysis of Fourier Harmonic Amplitudes showing that HA (0.5) are sufficient to analyze the buffalo sperm nuclear differences. Equation showing how the Fourier Functions are estimated.

To improve AI success rate and expand the wide application of FHA, the Philippine Carabao Center and the University of Wisconsin-Madison collaborated to develop a FHA Model for water buffalo, using 49 bulls with fertility record. This resulted to classification of the water buffalo bulls at Philippine Carabao Center where 12 were categorized as High and 10 as Low Fertile Bulls. Rest were classified as Mid Fertile.

#### Objective

To assess the efficiency of the FHA in classifying the buffalo bulls according to their fertility.

#### Methodology

Frozen semen from 5 High and 5 Low Fertile bulls were used for in vitro fertilization. In vitro matured oocytes from slaughter-house derived ovaries were used for in vitro fertilization. At 15th to 18th hour of sperm-oocyte co-culture for in vitro fertilization, the oocytes were freed from the surrounding sperm cells. Oocytes were fixed with aceto-glycerol and stained with aceto-orcein to check the in vitro fertilization rate by checking the male pronuclear formation (Fig. 4) to development of early cleavage stages.

Fig. 4. A fertilized oocyte showing the male and female pro-nucleus examined to check bull's fertility.



Photo Credit: UNSW Embryology embryology.med.unsw.edu.au

#### Results

FHA was found efficient in classifying bulls according to fertility evidenced by the significant difference ( $P < 0.05$ ) on the average penetration rate between High and Low Fertile bulls (Table 1). The results marked the wide application of FHA. However, the FHA Model developed for water buffaloes need improvement as some bulls classified as Low Fertile (Bulls 3-4) had the same fertility rate as those classified as High Fertile.

Table 1. In vitro fertilization assay of buffalo bulls classified by FHA as High and Low Fertile.

Bull Category	No. of Oocytes	With MPN Formation	Average Fertilization Rate, % $\pm$ SD
High Fertile 1	163	144	88.32 $\pm$ 2 <sup>a</sup>
High Fertile 2	139	105	75.61 $\pm$ 5 <sup>a</sup>
High Fertile 3	149	121	81.22 $\pm$ 2 <sup>a</sup>
High Fertile 4	119	97	81.50 $\pm$ 2 <sup>a</sup>
High Fertile 5	162	127	78.40 $\pm$ 3 <sup>a</sup>
Total & Ave $\pm$ SE	699	584	83.50 $\pm$ 2 <sup>a</sup>
Low Fertile 1	111	62	56.85 $\pm$ 5 <sup>b</sup>
Low Fertile 2	159	89	55.93 $\pm$ 4 <sup>b</sup>
Low Fertile 3	132	112	84.84 $\pm$ 5 <sup>a</sup>
Low Fertile 4	163	117	71.92 $\pm$ 1 <sup>b</sup>
Low Fertile 5	139	120	85.76 $\pm$ 3 <sup>a</sup>
Total & Ave $\pm$ SE	704	500	71.02 $\pm$ 2 <sup>b</sup>

Figures in the same column with different superscript are significantly different,  $P < 0.01$

#### Conclusion

FHA is effective in predicting bull fertility. It guarantees higher success in the production of genetically superior buffaloes. Additional bulls with concrete fertility record is needed to re-develop the FHA Model for buffalo to accurately classify the bulls according to fertility.

Acknowledgement: To DA-Biotech or the project funding (DA-BIOTECH-1460)



<sup>1</sup> Philippine Carabao Center, Science City of Muñoz, Nueva Ecija; <sup>2</sup> Central Luzon State University, Science City of Muñoz, Nueva Ecija; <sup>3</sup> Bataan Peninsula State University, Training Center Rd, Abuyog, Bataan; <sup>4</sup> Semen Processing Laboratory, Digidig, Caranglaan, Nueva Ecija; <sup>5</sup> University of Wisconsin, Madison, United States of America; \* +63 917-689-5453, 044-456-0731, danildah@yahoo.com

[https://www.behance.net/gallery/57181947/NAST-Scientific-Poster-2017-\(Best-Poster\)](https://www.behance.net/gallery/57181947/NAST-Scientific-Poster-2017-(Best-Poster))

# Exemple d'étude fictive portant sur l'efficacité de soins pédiatriques



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## Introduction

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## Matériel et méthode

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## Processus en 3 étapes



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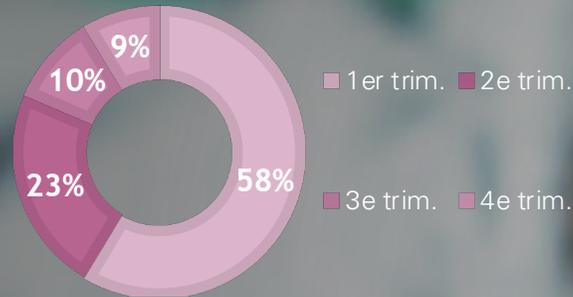
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## Résultats

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# ePoster ?

# Outils en ligne

- Exemple : [Canva](#), [Crello](#), [Genially](#)... (attention à la connexion)

# PDF ou Powerpoint (ou autre)

Identique à la version imprimable

# Exemple d'étude fictive portant sur l'efficacité de soins pédiatriques



A. DUPONT puéricultrice, M. JEANNAUD puéricultrice, A. MARTIN puéricultrice cadre de santé, C. MORIN cadre supérieur sage-femme  
PÔLE FEMME-MERE-ENFANT - CHU NICE

## Introduction

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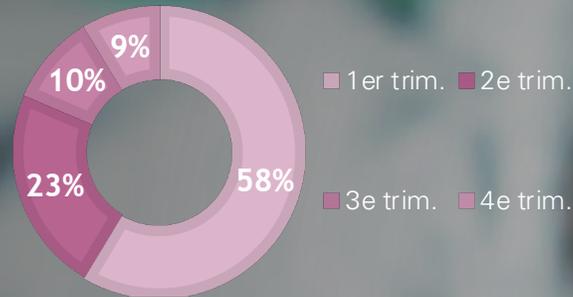
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# Diaporama PowerPoint

- Présenter les sections par diapositive
- Agencement plus libre du contenu
- Jeu d'animation et de transition

# Exemple d'étude fictive portant sur l'efficacité de soins pédiatriques

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A. MARTIN puéricultrice cadre de santé, C. MORIN cadre supérieur sage-femme  
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# Contexte

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# Objectifs

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# Matériel et méthode

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## Processus en 3 étapes



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# Pour aller plus loin

Formation Urfist

# Formation en ligne :

<https://urfist.univ-cotedazur.fr/formations/e-learning/poster/>

### Detect, classify and quantify baboon sounds

Guillem Bonafos  
Laboratoire Biométrie et Bioinformatique (LBB)

**Objectives**

- Learn how the raw data without annotations
- Extract the essential signal at a video
- Automate the classification and annotation of the data

**Efficiency**

- Data augmentation
- Training a classification neural net
- A fast and easy-to-use software
- A simple and efficient way to analyze the data

**The pipeline**

- Data augmentation
- Training a classification neural net
- A fast and easy-to-use software
- A simple and efficient way to analyze the data



## Mettre Distributions des classes de voc sur une échelle temporelle, ici, pas encore faite.

### Guillem Bonafos

Laboratoire Biométrie et Bioinformatique (LBB)

**Introduction**

Acoustic analysis of baboon sounds is a complex task. It requires a lot of manual work and is often time-consuming. The goal of this project is to automate the classification and annotation of the data.

**Conclusion**

A neural network is able to learn from a small set of raw data, thanks to data augmentation and transfer learning. Once trained, it is fast and efficient to classify and quantify sounds in a video. It can be improved by other related methods, such as data augmentation, transfer learning, and data augmentation.

**Objectives**

- Learn how the raw data without annotations
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**Methods**

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### Pipeline for the detection, classification and quantification of baboons vocalizations from raw data in noisy environment

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Laboratoire Biométrie et Bioinformatique (LBB)

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### Results

Category	Value
Accuracy	0.95
Precision	0.95
Recall	0.95

**Conclusion**

A neural network is able to learn from a small set of raw data, thanks to data augmentation and transfer learning. Once trained, it is fast and efficient to classify and quantify sounds in a video. It can be improved by other related methods, such as data augmentation, transfer learning, and data augmentation.

### Educational and Clinical Outcomes of Nursing Simulation

A. Romani, L. Beyer, P.J. Amous, S. Bendat, Université Aix-Marseille  
Sciences de la vie et de la santé ED 02 - Laboratoire de Biométrie et Bioinformatique (LBB)

**1-Abstract**

To appraise the educational value of nursing simulation in the management of real acute clinical situations, the study is proposed to appraise the educational value of nursing simulation in the management of real acute clinical situations including the implementation of first-aid, analyzing the critical outcomes in real acute care.

**2-Aims**

The objectives of this work are to promote innovative change in medical-clinical field that can be explored. Nursing Simulation represent a strategy that is based on the concepts of tomorrow's health education.

**3-Methodology**

Constitution of the corpus: extraction of the data from a list of all relevant research for the last 10 years. The database search has been carried out without time.

**4-illustrations**

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**5-illustrations**

Constitution of the corpus: extraction of the data from a list of all relevant research for the last 10 years. The database search has been carried out without time.

**6-Conclusion**

The methods of selecting studies, selection criteria and categorization seem to be to reproduce and generalizable, including for other studies. Our study could identify and appraise the results and methods used in simulation education for the management of acute situations for nurses in order to define ways to improve their evaluation results.

**7-Limits**

Only two databases were consulted at the time, we expand and complete our research by exploring other databases based on our research topic.

**Join us !!!**

Presenters, experts, health actors and other patient. All informations on the QR CODE



### Educational and Clinical Outcomes of Nursing Simulation

A. Romani, L. Beyer, P.J. Amous, S. Bendat  
Université Aix-Marseille  
Laboratoire de Biométrie et Bioinformatique (LBB)

**ABSTRACT**

To appraise the educational value of nursing simulation in the management of real acute clinical situations, the study is proposed to appraise the educational value of nursing simulation in the management of real acute clinical situations including the implementation of first-aid, analyzing the critical outcomes in real acute care.

**METHODOLOGY**

Constitution of the corpus: extraction of the data from a list of all relevant research for the last 10 years. The database search has been carried out without time.

**RESULTS**

Educational settings are contrasted in which students of all levels are ultimately exposed to a wide range of potentially stressful and anxiety-evoking experiences. Focus on hospital services.

**CONCLUSION AND LIMITS**

The methods of selecting studies, selection criteria and categorization seem to be to reproduce and generalizable, including for other studies. Our study could identify and appraise the results and methods used in simulation education for the management of acute situations for nurses in order to define ways to improve their evaluation results.

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### LOST OF HALOPHILIC BACTERIA IN SEVERE ACUTE MALNUTRITION CHILDREN IN MALL

Salma KONE, M. Mahamadou Ali THINA, Mathieu MILLON, Didier RAULT

**Introduction**

Severe Acute Malnutrition (SAM), responsible for up to 30% of child death (1) remains a public health problem in developing countries. The aim of this study was to investigate the gut microbiota of severely malnourished children, we conducted from 2017 to 2019 a cross-sectional study in 13 children under five. These were severely malnourished children according to WHO criteria and were healthy children living in the same area in Mali. We applied microbial cultures, sequencing and analysis of the microbiome. We observed a loss of halophilic bacteria and a high level of diversity in the gut in malnourished children. Further investigations on oral delivery and hygiene factors for oral hygiene diagnosis and therapeutic trials in severe acute malnutrition in order to control disease development.

**Conclusion and perspectives**

We observed in this study a loss of probiotics in severely malnourished children, suggesting the loss of probiotics in the gut. Further investigations on oral delivery and hygiene factors for oral hygiene diagnosis and therapeutic trials in severe acute malnutrition in order to control disease development.



### Lost of halophilic bacteria in severe acute malnutrition children in Mali

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### Determinants of quality of life in French young patients with Inborn Errors of Metabolism with Lifelong Restricted Diet

Abdoulaye GUATTARA  
Aix-Marseille Univ, EA 3279 CERES - Health Service Research and Quality of Life Center, Marseille, France  
Theodor Director, Julie BERES, Specialty: Clinical research and Public health

**BACKGROUND**

Inborn errors of metabolism with restricted diet (EMRD) are a heterogeneous group of genetic diseases affecting metabolic pathways. They are characterized by a lifelong restricted diet. The aim of this study was to investigate the determinants of quality of life in French young patients with EMRD.

**OBJECTIVE**

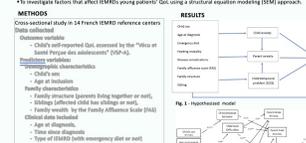
To investigate factors that affect EMRD young patients' QoL using a structural equation modeling (SEM) approach.

**RESULTS**

Our cross-sectional study in 24 French EMRD reference centers identified the following determinants of quality of life: patient characteristics, family characteristics, and clinical characteristics.

**CONCLUSION**

Our study identified several determinants of quality of life in French young patients with EMRD. These findings can be used to improve the care of these patients and to develop targeted interventions.



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### Analyse transcriptomique "cellule par cellule" de la leucémie aiguë myéloïde

Alina MARIANO, M. Mahamadou Ali THINA, Mathieu MILLON, Didier RAULT

**Introduction**

Acute Myeloid Leukemia (AML) is a heterogeneous disease characterized by the presence of immature myeloid cells in the bone marrow. The aim of this study was to investigate the transcriptomic profile of AML cells at the single-cell level.

**OBJECTIF DE l'étude**

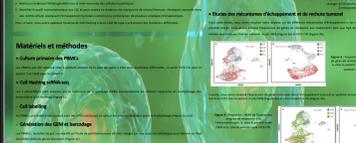
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**Matériel et méthodes**

Single-cell RNA sequencing (scRNA-seq) was performed on AML cells. The data were analyzed using t-SNE and clustering algorithms.

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Our study identified several clusters of AML cells with distinct transcriptomic profiles. These findings can be used to improve the understanding of AML pathogenesis and to develop targeted therapies.



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# Merci pour votre attention

Des questions ?