

# How to Use UCR L<sup>A</sup>T<sub>E</sub>X Dissertation Template

Yelda Serin

UCR GradQuant

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# Download this File

To download this file, go to:

<https://github.com/yeldaserin/LaTeX-Workshops>

# Outline

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- 1 Introduction
- 2 Editors & Compilers
- 3 Getting Started with L<sup>A</sup>T<sub>E</sub>X
- 4 Using Templates
- 5 UCR Dissertation Template in L<sup>A</sup>T<sub>E</sub>X
- 6 Adding a Table of Contents
- 7 Creating a Bibliography in L<sup>A</sup>T<sub>E</sub>X
- 8 L<sup>A</sup>T<sub>E</sub>X Resources

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# Introduction: Why Use L<sup>A</sup>T<sub>E</sub>X?

- Your document will look good.
  - Better hyphenation
  - Optimized justification
  - Figures where you want them
- Content and form are separated; L<sup>A</sup>T<sub>E</sub>X gives you an opportunity to focus on content.
- Writing in mathematics is easy in L<sup>A</sup>T<sub>E</sub>X.
- Inserting figure/table legends has never been this easy!
- Citing figures/tables is effortless.
- Adding a bibliography is quick & easy.
- You can open/write your code in any text editor.

# Introduction: Why *Not* to Use L<sup>A</sup>T<sub>E</sub>X?

- L<sup>A</sup>T<sub>E</sub>X is not WYSIWYG -*what you see is what you get*.
- L<sup>A</sup>T<sub>E</sub>X could be time-consuming.
- There is a lot of guess-and-check in L<sup>A</sup>T<sub>E</sub>X.
  - Learn by doing.
  - Find answers by searching the internet or contacting GradQuant.
- L<sup>A</sup>T<sub>E</sub>X is not the best option for more graphic-heavy documents.

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# Editors & Compilers

- To install in your machine:
  - Visit <https://www.latex-project.org/>

## TeX Distributions

If you're new to TeX and LaTeX or just want an easy installation, get a full TeX distribution. The TeX Users Group (TUG) has a [list of notable distributions](#) that are entirely, or least primarily, free software.



### Linux

Check your Linux distributions software source for a TeX distribution including LaTeX. You can also install the current [TeX Live distribution](#) directly—in fact this may be advisable as many Linux distributions only contain older versions of TeX Live, see [Linux TeX Live package status](#) for details.



### Mac OS

The [MacTeX](#) distribution contains everything you need, including a complete TeX system with LaTeX itself and editors to write documents.



### Windows

Check out the [MiKTeX](#) or [proTeXt](#) or [TeX Live](#) distributions; they contain a complete TeX system with LaTeX itself and editors to write documents.



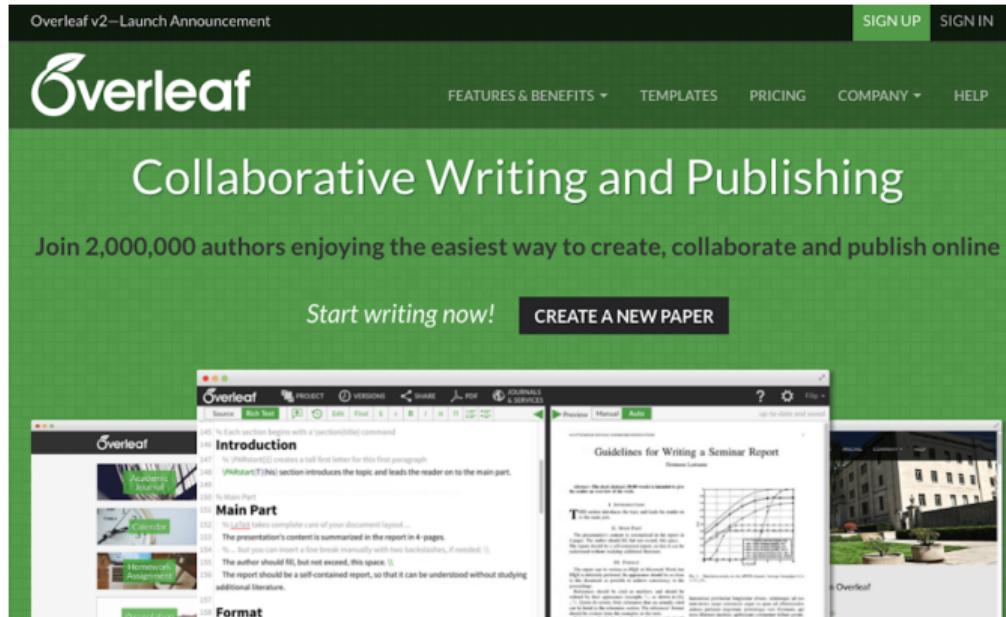
### Online

LaTeX online services like [Papeeria](#), [Overleaf](#), [ShareLaTeX](#), [Datazar](#), and [LaTeX base](#) offer the ability to edit, view and download LaTeX files and resulting PDFs.

# Editors & Compilers

- In the cloud:

- Overleaf: <https://www.overleaf.com>



Over 17 million projects, authors from 3600 *institutions* and more than 2400 *templates*

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# Getting Started with L<sup>A</sup>T<sub>E</sub>X: Formatting Components

- A Minimal L<sup>A</sup>T<sub>E</sub>X Document
- Document Layout
- Document Class
- Packages
- Commands
- Environments
- Comments
- Backslash Operator in L<sup>A</sup>T<sub>E</sub>X
- Numbered Lists
- Bulleted Lists

# A Minimal L<sup>A</sup>T<sub>E</sub>X Document

```
\documentclass{article}
\begin{document}
Hello dear reader! %Your content goes here.
\end{document}
```

- *Commands* start with a *backslash*, \.
- Every document starts with a \documentclass command.
- The *argument* in curly braces { } describes what kind of document we are creating.
- A % sign starts a *comment*. L<sup>A</sup>T<sub>E</sub>X will ignore the rest of the line.

# Document Layout

```
\documentclass[a4paper,11pt]{  
    article}  
\usepackage[utf8]{inputenc}  
\usepackage{amsmath}  
\usepackage{graphicx}  
  
\title{Sample Document}  
\author{Kathryn Janeway}  
\date{September 2018}  
  
\begin{document}  
  
\maketitle  
  
\section{Introduction}  
Your document starts here.  
  
\section{Conclusion}  
Your conclusions go here.  
\end{document}
```

Sample Document

Kathryn Janeway

September 2018

## 1 Introduction

Your document starts here.

## 2 Conclusion

Your conclusions go here.

# Document Class

- Entered in the preamble of the document.
- Denotes which document layout standard to use.

```
\documentclass[11pt,twoside,a4paper]{article}
```

- Article, report (for multi-chapter documents), book, beamer (for presentations).
- Document class options listed in square brackets.

# Packages

- Entered in the preamble of the document.
- Provide sets of commands or affect the appearance of the output document.

```
1 \documentclass[12pt]{article}
2 \usepackage{amsmath}%for writing math symbols
3 \usepackage{textgreek}%for writing Greek letters
4 \usepackage{setspace}%for setting space between lines
5 \usepackage{gensymb}%for generic symbols
6 \usepackage{textcomp}
7 \usepackage{graphicx}%for inserting images
8 \graphicspath{ {Images/} }%for defining a path for image files
9 \usepackage{listings}
10 \usepackage[T1]{fontenc}
11 \usepackage[version=4]{mhchem}%always include version.
12 \usepackage[margin=1in]{geometry}%to setup page layout, paper size, margins, etc.
```

# Commands

- Entered throughout the document.
- Provide markup.
- Start with a backslash.

```
\begin{itemize}
  \item Star Trek TNG
  \item Star Trek DS9
  \item Star Trek Voyager
\end{itemize}
```

- Star Trek TNG
- Star Trek DS9
- Star Trek Voyager

```
\textbf{Banana}
\textit{Apple}
\textcolor{red}{Balloon}
```

**Banana**  
*Apple*  
Balloon

# Environments

```
\begin and \end
```

commands are used to create different environments

```
\begin{itemize}
\item Star Trek TNG
\item Star Trek DS9
\item Star Trek Voyager
\end{itemize}
```

- Star Trek TNG
- Star Trek DS9
- Star Trek Voyager

```
\begin{center}
Star Trek is an American space opera media
franchise based on the science
fiction television series created by
Gene Roddenberry.
\end{center}
```

Star Trek is an American space opera media franchise based on the science fiction television series created by Gene Roddenberry.

# Comments

- Preceded by a % sign.
- Does not appear in the final document.

```
1 \documentclass[12pt]{article}
2 \usepackage{amsmath}%for writing math symbols
3 \usepackage{textgreek}%for writing Greek letters
4 \usepackage{setspace}%for setting space between lines
5 \usepackage{gensymb}%for generic symbols
6 \usepackage{textcomp}
7 \usepackage{graphicx}%for inserting images
8 \graphicspath{ {Images/} }%for defining a path for image files
9 \usepackage{listings}
10 \usepackage[T1]{fontenc}
11 \usepackage[version=4]{mhchem}%always include version.
12 \usepackage[margin=1in]{geometry}%to setup page layout, paper size, margins, etc.
```

# Backslash operator in L<sup>A</sup>T<sub>E</sub>X

- Commands

`\section{}, \cite{}, \ref{}, \label{}, \begin{}, \end{}`

- Formatting

`\textit{} (italic), \textbf{} (bold), \\ (new line)`

- Special characters and math

`\sigma, \Phi, \frac{}{}, \sum_{}^{}{}`

- Display reserved characters

`\#, \$, ^, %, &, {, }`

# Numbered Lists

NASA missions to explore Mars:

```
\begin{enumerate}
    \item Mariner program
    \item Mars Exploration Rovers
    \item Mars Pathfinder
    \item Mars Polar Lander
    \item Mars Science Laboratory (MSL)
    \item Mars Scout program
    \item Viking program
\end{enumerate}
```

NASA missions to explore Mars:

1. Mariner program
2. Mars Exploration Rovers
3. Mars Pathfinder
4. Mars Polar Lander
5. Mars Science Laboratory (MSL)
6. Mars Scout program
7. Viking program

# Bulleted Lists

NASA missions to explore Mars:

```
\begin{itemize}
  \item Mariner program
  \item Mars Exploration Rovers
  \item Mars Pathfinder
  \item Mars Polar Lander
  \item Mars Science Laboratory (MSL)
  \item Mars Scout program
  \item Viking program
\end{itemize}
```

NASA missions to explore Mars:

- Mariner program
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- Mars Scout program
- Viking program

# Typesetting Text: Caveats

If some characters have special functions in L<sup>A</sup>T<sub>E</sub>X, how do we show them in the text?

```
% sign ==> enter \%  
\ sign ==> enter \textbackslash  
$ sign ==> enter \$
```

%

\

\$

# Handling Errors

- Don't panic! Errors happen.
- If there are errors in your L<sup>A</sup>T<sub>E</sub>X code, Overleaf will let you know. You must fix them before you can proceed.
- Google the error code.

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# Using Templates

- **Journal articles:** Visit journal websites.
- **Presentations, CVs, letters, and more:** Pre-made templates in Overleaf:  
<https://www.overleaf.com/latex/templates>
- **UCR dissertation:** Visit UCR Graduate Division website:  
<https://graduate.ucr.edu/filing-resources>

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# UCR Dissertation Template in L<sup>A</sup>T<sub>E</sub>X

Go to...

<https://graduate.ucr.edu/filing-resources>

Download LaTe<sub>X</sub> Template (Chairperson or Co-Chairpersons)

Downloadable Templates

<a href="#">Word Template</a>	<a href="#">Word Template with Landscape Table</a>
<a href="#">LaTex Template (Chairperson)*</a>	<a href="#">LaTex Template (Co-Chairpersons)*</a>
<a href="#">Margin and Page Number Template</a>	<a href="#">Margin and Page Number Placement Template (with landscape table)</a>

# Document Components

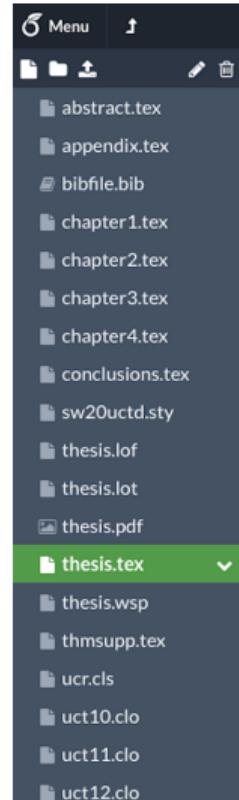
## Main source file:

- .tex file (source code)\*

## Formatting files:

- .cls file (document class file)
- .clo file (class option file)
- .sty file (style file)
- .bst file (BibTeX style file)
- .bib file (BibTeX file)\*
- .lof (list of figures file)

⇒ \* *the only documents you should edit*



# Documents to work on in the dissertation template

## What you need to work on:

- Thesis.tex
  - Title page
  - Signature page
  - Acknowledgments page
  - Dedication page
- Abstract.tex
- Chapters.tex
- Conclusion.tex
- Appendix.tex
- Bibfile.bib

# Documents to work on in the dissertation template

## What you need to work on:

- Thesis.tex
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- Abstract.tex
- Chapters.tex
- Conclusion.tex
- Appendix.tex
- Bibfile.bib

## What you need to include in the *Thesis.tex* file:

- Personalized sections
- Table of contents command
- List of figures command
- List of tables command
- Bibliography command
- Abstract, chapters, conclusion, and appendix commands

*Demo on Overleaf*

# Creating Chapters, Sections, and Subsections

```
\section{Section name}
  \subsection{Subsection name}
    \subsubsection{Subsubsection name}
```

## 1 Section name

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt  
ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation  
ullamco laboris nisi ut aliquip ex ea commodo consequat.

### 1.1 Subsection name

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt  
ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation  
ullamco laboris nisi ut aliquip ex ea commodo consequat.

#### 1.1.1 Subsubsection name

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt  
ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation  
ullamco laboris nisi ut aliquip ex ea commodo consequat.

# Creating Chapters, Sections, and Subsections

```
\section*{Section name}
  \subsection*{Subsection name}
    \subsubsection*{Subsubsection name}
```

## Section name

  Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt  
  ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation  
  ullamco laboris nisi ut aliquip ex ea commodo consequat.

## Subsection name

  Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt  
  ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation  
  ullamco laboris nisi ut aliquip ex ea commodo consequat.

## Subsubsection name

  Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt  
  ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation  
  ullamco laboris nisi ut aliquip ex ea commodo consequat.

# Inserting Figures

In the preamble...

- Use graphicx package:

```
\usepackage{graphics}
```

- Define a path for your image files:

```
\graphicSPATH { {Folder name/} }
```

---

```
1 \documentclass{article}
2 \usepackage[utf8]{inputenc}
3 \usepackage{amsmath}% to enter mathematical formulas
4 \usepackage{graphicx}
5 \graphicSPATH{ {Images/} }
```

# Inserting Figures

```
\begin{figure}[h]
    \centering
    \includegraphics[height=2cm]{GHalloween.jpg}
        \caption{Google Halloween Doodle.}
        \label{fig:GHalloween}
    \vspace{1cm}
    \includegraphics[height=2cm]{GThanksgiving.jpg}
        \caption{Google Thanksgiving Doodle.}
        \label{GThanksgiving}
\end{figure}
```

# Inserting Figures



Figure 1: Google Halloween Doodle.



Figure 2: Google Thanksgiving Doodle.

# Inserting Figures

The 2010 Halloween doodle (Figure \ref{fig:GHalloween}) featured the mystery-solving team in a short 5-panel doodle working to solve the mystery of the missing Google logo.

```
\begin{figure}[h]
  \centering
  \includegraphics[height=2cm]{GHalloween.jpg}
    \caption{Google Halloween Doodle.}
    \label{fig:GHalloween}
\end{figure}
```

# Inserting Figures

The 2010 Halloween doodle (Figure 4) featured the mystery-solving team in a short 5-panel doodle working to solve the mystery of the missing Google logo.



Figure 4: Google Halloween Doodle.

# Inserting Tables

On this page, you can see the first table in this document (`\ref{samptable}`)

```
\begin{table}[h]
\centering
\begin{tabular}{ c | c | c }\hline
\textbf{Column1} & \textbf{Column2} & \textbf{Column3} \\ \hline
cell1 & cell2 & cell3 \\ \hline
cell4 & cell5 & cell6 \\ \hline
cell7 & cell8 & cell9 \\ \hline
\end{tabular}
\caption{Sample Table}
\label{samptable}
\end{table}
```

# Inserting Tables

On this page, you can see the first table in this document (Table 3).

<b>Column1</b>	<b>Column2</b>	<b>Column3</b>
cell1	cell2	cell3
cell4	cell5	cell6
cell7	cell8	cell9

Table 3: Sample Table

# A Useful Tool to Create Tables

- Visit *Tables Generator*: <https://www.tablesgenerator.com/>
- Enter/upload your data and generate your L<sup>A</sup>T<sub>E</sub>X code.
- Copy the L<sup>A</sup>T<sub>E</sub>X code into your document in Overleaf.

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# Adding a Table of Contents

```
1 \documentclass{article}
2 \usepackage[utf8]{inputenc}
3
4 \title{Spring 2018 Workshop}
5 \author{Yelda Serin}
6 \date{April 19, 2018}
7
8 \begin{document}
9
10 \maketitle
11 \newpage
12
13 \tableofcontents
14 \newpage
15
16 \section{Introduction}
17 As a sample text, we will use the first paragraph
\textbf{Star Trek} is an American media franchise
```

## Contents

1	Introduction	3
2	Television series	3
2.1	Star Trek: The Next Generation . . . . .	3
2.2	Star Trek: Deep Space Nine . . . . .	3

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# Creating a Bibliography in L<sup>A</sup>T<sub>E</sub>X

- Citation Management with Paperpile
- Citations in L<sup>A</sup>T<sub>E</sub>X

# Citation Management with Paperpile



- A web-based reference management software: <https://paperpile.com>
- UCR site license
- Integrated into Google Docs and Google Scholar
- Implemented as a Google Chrome browser extension
- May be synced with Google Drive
- Helps you:
  - Add journal articles from integrated sites, such as Google Scholar and Pubmed
  - Share papers with colleagues
  - Organize your library
  - Import your reference library to be used in your L<sup>A</sup>T<sub>E</sub>X document

## *Demo on Paperpile*

# Citations in L<sup>A</sup>T<sub>E</sub>X

## What do you need?

- Your bibliography file: BibTeX database has an extention *.bib* that contains bibliographic entries.
  - You may obtain this file with any reference management software, including Paperpile, Mendeley, Papers, and EndNote.
- A bibliographic style that you want to use: Add the package in the preamble for the style you choose.

```
\usepackage{apacite}
```

- Common styles: <https://www.overleaf.com/help/218-which-bibtex-styles-are-available-on-overleaf>

- Citations in the text:

```
\cite{Amoasi2018-dt}
```

# Exporting Citations out of Paperpile

The screenshot shows the Paperpile web application interface. At the top, there is a search bar labeled "Search your papers" and several action buttons: "Select" (with a checkmark), "Trash", "Cite", "Share", and "More actions...". A context menu is open over a selected citation, specifically for a paper titled "Gene editing restores dystrophin expression in a canine model of Duchenne muscular dystrophy". The menu items include "Copy to clipboard", "Citation", "BibTeX" (selected), "Citation Key", "LaTeX Citation", and "Change Citation Style". The "BibTeX" item is highlighted with a blue background and has a file size of "3KB". To the right of the menu, a sidebar displays "Papers found: 5 shown, All 5 selected". Below the sidebar are sections for "Sort" (Date Added, Publication Date, Title, Journal, Author) and "Filter" (Unsorted, Has PDF, Has no PDF). At the bottom of the sidebar, there is a "Type" section with "Journal Article (5)" and "Review (1)".

Gene editing restores dystrophin expression in a canine model of Duchenne muscular dystrophy ★

Amoasii L, Hildyard JCW, Li H, Sanchez-Ortiz E, Mireault A, Caballero D, Harron R, Stathopoulou TR, Massey C, Shelton JM, Bassel-Duby R, Piercy RJ, Olson EN  
*Science*, 2018 – Journal Article ...

[Website](#) | [PubMed](#) | [Cited By](#)

Engineered CRISPR-Cas9 nuclease with expanded targeting space ★

Nishimasu H, Shi X, Ishiguro S, Gao L, Hirano S, Okazaki S, Noda T, Abudayyeh OO, Gootenberg JS, Mori H, Oura S, Holmes B, Tanaka M, Seki M, Hirano H, Aburatani H, Ishitani R, Ikawa M, Yachie N, Zhang F, Nureki O  
*Science*, 2018 – Journal Article ...

[Website](#) | [PubMed](#) | [Cited By](#)

Human AML activates the AHR pathway to impair NK cell development and function ★

Scoville SD, Nalin AP, Chen L, Chen L, Zhang M, McConnell K, Beceiro Casas S, Ernst G, Traboulsi AA, Hashi N, Williams M, Zhang X, Hughes T, Mishra A, Benson DM, Saultz JN, Yu J, Freud AG, Caligiuri MA, Mundy-Bosse BL  
*Blood*, 2018 – Journal Article ...

[Website](#) | [PubMed](#) | [Cited By](#)

## .bib file in L<sup>A</sup>T<sub>E</sub>X

```
1 @ARTICLE{Amoasii2018-dt,
2   title    = "Gene editing restores dystrophin expression in a canine model of
3             Duchenne muscular dystrophy",
4   author   = "Amoasii, Leonela and Hildyard, John C W and Li, Hui and
5             Sanchez-Ortiz, Efrain and Mireault, Alex and Caballero, Daniel
6             and Harron, Rachel and Stathopoulou, Thaleia-Rengina and Massey,
7             Claire and Shelton, John M and Bassel-Duby, Rhonda and Piercy,
8             Richard J and Olson, Eric N",
9   journal  = "Science",
10  month    = aug,
11  year     = 2018,
12  language = "en"
13 }
```

# Citations in L<sup>A</sup>T<sub>E</sub>X

Now use it in your main file:

```
Tremblay's and Amoasii's studies  
support the concept that,  
with further development,  
gene editing approaches may  
prove clinically useful for  
the treatment of DMD \cite{  
Amoasii2018-dt, Tremblay2016-  
vm}.
```

Tremblay's and Amoasii's studies support the concept that, with further development, gene editing approaches may prove clinically useful for the treatment of DMD (Amoasii et al., 2018; Tremblay, Iyombe-Engembe, Duchêne, & Ouellet, 2016).

# Citations in L<sup>A</sup>T<sub>E</sub>X

```
\textbf{References}
\bibliographystyle{apacite}
\bibliography{biblio.bib}
```

## References

- Amoasii, L., Hildyard, J. C. W., Li, H., Sanchez-Ortiz, E., Mireault, A., Caballero, D., ... Olson, E. N. (2018). Gene editing restores dystrophin expression in a canine model of duchenne muscular dystrophy. *Science*.
- Tremblay, J. P., Iyombe-Engembe, J.-P., Duchêne, B., & Ouellet, D. L. (2016). Gene editing for duchenne muscular dystrophy using the CRISPR/Cas9 technology: The importance of fine-tuning the approach. *Mol. Ther.*, 24(11), 1888–1889.

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# L<sup>A</sup>T<sub>E</sub>X Resources

- L<sup>A</sup>T<sub>E</sub>X handouts, guides, package documents, etc:  
<https://gradquant.ucr.edu/resources/databases-and-programming>
- UCR dissertation template in L<sup>A</sup>T<sub>E</sub>X:  
<https://graduate.ucr.edu/filing-resources>

Thank you!



*Yelda Serin, PhD*  
*yelda.serin@ucr.edu*

*<http://gradquant.ucr.edu>*  
*Life Sciences 1425*  
*Mon-Fri, 9am - 5pm*