

WESTERN SYDNEY UNIVERSITY

A WESTERN SYDNEY UNIVERSITY THESIS TEMPLATE

Your Name

In fulfilment of the requirements
for the degree of Doctor of Philosophy



School of Science and Health
Western Sydney University
Australia
March 2018

Acknowledgements

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Statement of Authenticity

This thesis is submitted in fulfilment of the requirements for Doctorate of Philosophy (Science) at Western Sydney University. The work presented in this thesis is, to the best of my knowledge and belief, original except as acknowledged in the text. I hereby declare that I have not submitted this material, either in full or in part, for a degree at this or any other institution.

Your Name

Publications

(i) **Name, Y.** Publication 1

(ii) **Name, Y.** Publication 2

(iii) **Name, Y.** Publication 3

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Abbreviations

λ	Wavelength (nm)	NRs	Nanorods
µL	Microliters	OFM	Ovine Forestomach Matrix
µm	Micrometers	Pa	Pascals
µN	Micronewtons	PDMS	Polydimethylsiloxane
°C	Degrees Celsius	PDT	Photodynamic Therapy
AFM	Atomic Force Microscopy	PGSA	Poly(glycerol sebacate acrylate)
bFGF	Basic Fibroblast Growth Factor	PMMA	Poly(methyl methacrylate)
BSE	Back-Scattered Electron	PS	Photo-Sensitiser
cm	Centimeters	PS-b-PAA	polystyrene-block-poly(acrylic acid)
ECM	Extracellular Matrix	PTB	Photochemical Tissue Bonding
FG	Fibrin Glue	RB	Rose Bengal
FGF	Fibroblast Growth Factor	ROS	Reactive Oxygen Species
ICG	Indocyanine Green	s	Seconds
IR	Infrared	SD	Standard Deviation
J	Energy (Joules)	SEM	Scanning Electron Microscopy
kPa	Kilopascals	SIS	Small Intestinal Submucosa
LED	Light Emitting Diode	T	Temperature
LTR	Laser Tissue Repair	TEM	Transmission Electron Microscopy
LTW	Laser Tissue Welding	TGF-β	Transforming Growth Factor β
MMW	Medium Molecular Weight	UV	Ultraviolet
mN	Millinewtons	v/v	Volume to Volume
MPa	Megapascals	vdW	van der Waals
mW	Power (Milliwatts)	VEGF	Vascular Endothelial Growth Factor
N	Newtons	W	Power (Watts)
nm	Nanometers	w/v	Weight to Volume
NMR	Nuclear Magnetic Resonance	wt %	Weight Solute/Weight Solvent
NPs	Nanoparticles		

Abstract

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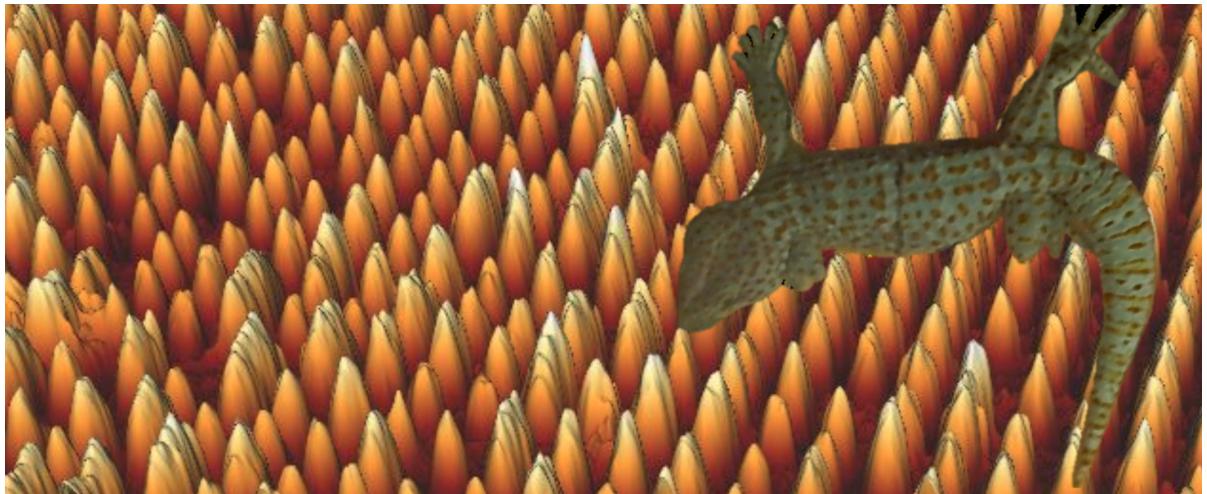
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Chapter 1

The First Chapter



The way this page is presented shows how I structured my chapters. Each chapter had a graphical abstract (above) and was based on a publication. The text here was replaced with the citation, and description of what I had contributed to the manuscript. Feel free to use your own design here.

1.1 Introduction

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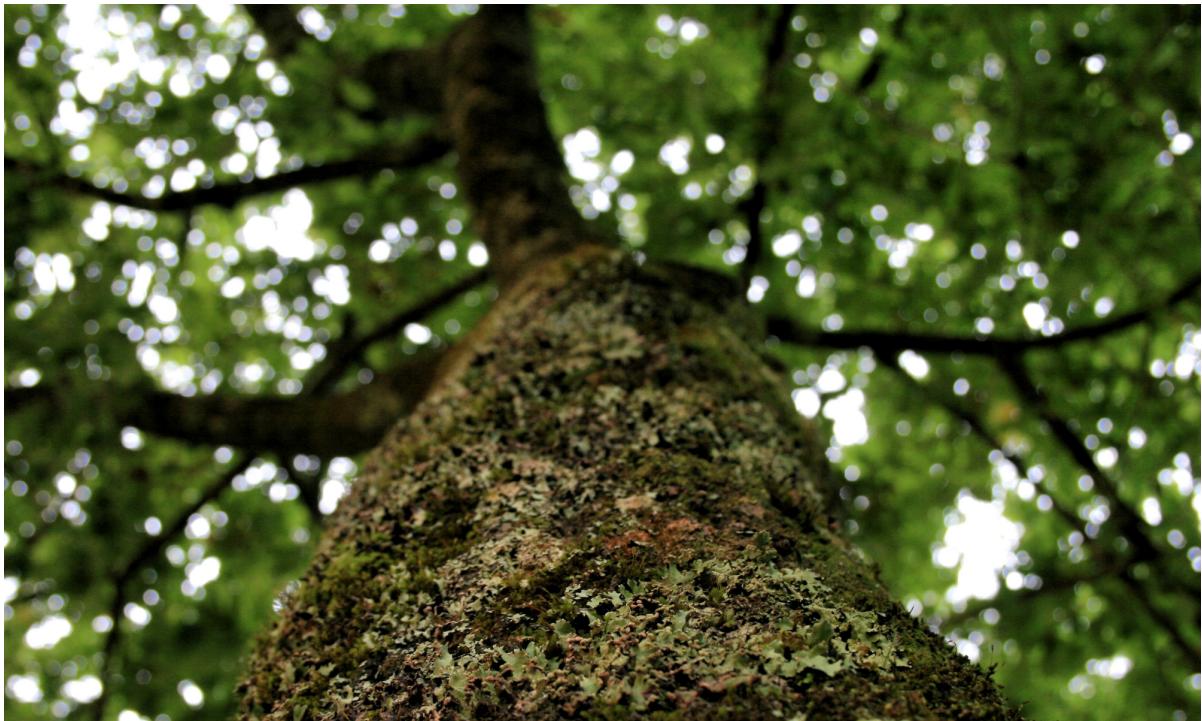


Figure 1.1: This is a longer more descriptive image caption.

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Equation 1.1 shows the fundamental relationship between force, mass, and acceleration.

$$F = m \times a \quad (1.1)$$

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. Table 1.1 is an example of a horizontal table on a landscape page.

Table 1.1: This Is A Table

	Section 1	Section 2	Section 3	Section 4	Section 5
1	Red	Blue	Green	Yellow	
2	Orange	Red	Blue	Green	
3	Yellow	Orange	Red	Blue	
4	Green	Yellow	Orange	Red	
5	Blue	Green	Yellow	Orange	
6	Red	Blue	Green	Yellow	
7	Orange	Red	Blue	Green	
8	Yellow	Orange	Red	Blue	
9	Green	Yellow	Orange	Red	

This is the caption of the table.

The following is a list:

(1) This

(2) Is

(3) A

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Chapter 2

The Next Chapter

2.1 Abstract

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2.2 How To Reference

For you referencing I used Zotero to keep track of all of my citations. From Zotero you can then export your library as BibTeX into the parent directory of your thesis (in my case as `references.bib`). This is an example of a single citation [1]. This is an example of multiple citations [1–3]. You can change the referencing style in the preamble in `thesis-main.tex`.

Chapter 3

Conclusions

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References

- [1] Samuel Frost, Damia Mawad, Michael Higgins, Herleen Ruprai, Rhiannon Kuchel, Richard Tilley, Simon Myers, James Hook, and Antonio Lauto. Gecko-inspired chitosan adhesive for tissue repair. *NPG Asia Materials*, 8(6):e280, 2016.
- [2] Samuel Frost, Damia Mawad, James Hook, and Antonio Lauto. Micro and Nanostructured Biomaterials for Sutureless Tissue Repair. *Advanced Healthcare Materials*, 5(4):401–414, 2016.
- [3] Samuel Frost, Damia Mawad, Richard Wuhrer, Simon Myers, and Antonio Lauto. Semitransparent bandages based on chitosan and extracellular matrix for photochemical tissue bonding. *BioMedical Engineering OnLine*, 17(1):7, 2018.

Appendix A

Appendix 1

This is where your supporting information would go. Include tables, data, etc.

Appendix B

Paper 1

Include Any Published Papers Easily In Your Appendices

Be sure to request permissions from journal and include that permission here. I have just imported the source code for thesis-main.tex as a pdf to demonstrate.

```
% First attempt at making PhD Thesis template in LaTeX.  
% Western Sydney University PhD Thesis Template  
% Copyright (C) 2017-2018 Samuel J. Frost  
% Email: samuel.frost.1991@gmail.com
```

```
%  
% This program is free software: you can redistribute it and/or modify  
% it under the terms of the GNU General Public License as published by  
% the Free Software Foundation, either version 3 of the License, or  
% (at your option) any later version.
```

```
%  
% This program is distributed in the hope that it will be useful,  
% but WITHOUT ANY WARRANTY; without even the implied warranty of  
% MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
% GNU General Public License for more details.
```

```
%  
% You should have received a copy of the GNU General Public License  
% along with this program. If not, see <http://www.gnu.org/licenses/>.
```

```
% =====
```

```
% The initial set-up of the document class. Experimenting with book format  
% to begin with. Change 'twoside' to 'oneside' to go from having print  
% on both sides to only on the right. The 'openright' command forces title  
% pages to only be on the right hand side.
```

```
\documentclass[12pt,openright,twoside]{report} % remove twoside to make like book  
\renewcommand{\baselinestretch}{2} % 1.5 spacing  
\usepackage{fancyhdr}  
  \fancyheadoffset{Opt}  
  \fancyhead{}  
  \fancyhead[RO]{A Western Sydney University Thesis Template} % add ,LE for same on both pages  
  \fancyfoot{}  
  \fancyfoot[LE,RO]{\thepage}  
  \fancyfoot[LO,RE]{Chapter \thechapter}  
  \fancyfoot[CO,CE]{Your Name}  
\renewcommand{\headrulewidth}{0.4pt}  
\renewcommand{\footrulewidth}{0.4pt}  
\usepackage{graphicx} % graphics management  
  \graphicspath{{Figures/}} % folder where figures are stored in parent directory  
\usepackage{layout}  
\usepackage{indentfirst} % indentation at start of paragraph  
\usepackage[a4paper, width=150mm, top=25mm, bottom=25mm, bindingoffset=15mm, textwidth=450pt, textheight=650pt]  
\usepackage{lscape}  
\usepackage[osf,sc]{mathpazo} % to stop equations being italicised  
\usepackage{eulervm}  
\usepackage[labelfont=bf]{caption} % bold figure number title  
\usepackage{float}  
\usepackage{booktabs}  
\usepackage{multirow}  
\usepackage{cite} % main reason is to join references together i.e. [1-3] instead of [1,2,3]  
\bibliographystyle{unsrt} % unsrt also okay  
\renewcommand{\bibname}{References} % change name of bibliography to references  
\usepackage[nottoc]{tocbibind} % to include references in bibliography remove numbib to remove chapter number  
\usepackage{pdfpages}  
\usepackage{enumitem} % bold numbers in numerical list  
\usepackage{ragged2e} % for justifying text after \centering  
\usepackage{lipsum} % only for filling template with text
```

```
%
```

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%
```

```
% =====
```

```
\title{A Western Sydney University Thesis Template} % running title - insert your title here
```

```
\author{Your Name} %replace with your name
```

```
\date{2018}
```

```
\begin{document}
```

```
\pagenumbering{roman} % switch between roman and arabic when desired
```

```
\input{Title/thesis-title} % ensure your folder structure and file names are called correctly
```

```
\renewcommand{\baselinestretch}{2} % switching between different text-spacing - there are more efficient ways of doing so
```

```
\cleardoublepage
```

```
\input{Acknowledgements/acknowledgements}
```

```
\input{Declaration/declaration} % statement of authenticity
```

```
\clearpage
```

```
\input{Publications/contributions}
```

```
\renewcommand{\baselinestretch}{1.5}\normalsize
\tableofcontents
\listoffigures
\listoftables
\input{Abbreviations/abbreviations}
\renewcommand{\baselinestretch}{2}\normalsize
\cleardoublepage
\input{Abstract/abstract}
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```
\chapter{The First Chapter} \label{Chapter 1}
\pagestyle{fancy}
\pagenumbering{arabic}
\begin{figure}[!h]
\centering
\includegraphics[width=\textwidth]{chapter1abs}
\end{figure}
```

\noindent The way this page is presented shows how I structured my chapters. Each chapter had a graphical abstract (above) to the manuscript. Feel free to use your own design here.

```
\clearpage
\input{Chapter1/chapter1}
```

```
\chapter{The Next Chapter} \label{Chapter 2}
```

% feel free to change the style of your chapter openings, but, remember to keep it consistent

```
\input{Chapter2/chapter2}
```

```
\chapter{Conclusions}
\input{Conclusions/conclusions}
```

```
\renewcommand{\baselinestretch}{1.5}\normalsize
\bibliography{references}
\renewcommand{\baselinestretch}{2}\normalsize
\clearpage
```

```
\appendix
```

```
\chapter{Appendix 1}
\input{Appendices/appendix1}
```

```
\chapter{Paper 1} \label{Appendix 2}
```

\noindent {\Large Include Any Published Papers Easily In Your Appendices}

\newline

\noindent Be sure to request permissions from journal and include that permission here. I have just imported the source code

```
\includepdf[pages=-]{print.pdf} % this inputs the pdf into the final pdf, change the name to your pdf
```

```
\end{document}
```