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my dedication...

List of Papers

This thesis is based on the following papers, which are referred to in the text by their Roman numerals.

- I Andersson, K., Hämäläinen, M., Malmqvist, M. (1999) Identification and Optimization of Regeneration Conditions for Affinity-Based Biosensor Assays. A Multivariate Cocktail

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Part I:

Introduction

This part of the of the document describes the content of the document and how it should be used, and the changes from version 1.0 of the thesis template.

1. About the template

1.1 What's in this package?

In this package you will find the following files:

BiblioInfo.tex - Contains all bibliographic information and information about the defense of the thesis. The author should add this information to the commands defined in this file.

Example.tex - An example to show the typesetting of all the used commands and environments.

Instruction.tex - This file.

Introduction.tex - Tex file for the first chapter.

Read.me - Contains basic instructions for the package.

References.bib - An example of a reference file.

Sunset.jpg - The image in the example.

Sunset.eps - The image in the example.

Fonts.pdf - The image in the instruction.

Fonts.eps - The image in the instruction.

Thesis.blg, Thesis.aux, Thesis.bbl Thesis.log, Thesis.lot, Thesis.out Thesis.toc - Help files.

Thesis.pdf - The PDF result Thesis.tex.

Thesis.ps - The PostScript result Thesis.tex.

Thesis.dvi - The DVI result Thesis.tex.

Thesis.sty - All the changes to and redefinitions of Book.cls have been collected in this file. It also contains the basic structure of the document along with all new commands and environments used in the template as well as all redefined commands and environments. Since version 3.0 this file defines the commands used in the front matter that create the half-title page, abstractpage, list of papers and dedication.

Thesis.tex - This is the main T_EX file. In this frame all other T_EX files are included.

UU_logo_pc_sv_42.eps - The Uppsala University 42 mm black and white logotype in EPS format.

UU_logo_pc_sv_42.pdf - The Uppsala University 42 mm black and white logotype in PDF format.

ProblemsAndSolutions.tex - File containing known problems and suggested solutions.

captions.sty - The used version of caption package. If you miss the latest version of captions use this file.

1.2 Instructions

The template consists of one main file, *Thesis.tex*, and a number of \TeX files which are included in the mainfile. The thesis may be split into one or several chapter files which are to be included in the main matter of the *Thesis.tex* file. *Introduction.tex* has been included to illustrate this. All the normal commands and environments defined in \LaTeX can be used although some of them have been redefined for typographical reasons. In addition to the *Thesis.tex* the author should edit the *BiblioInfo.tex* file and use either `\frontMatterCS` or `\frontmatterMonograph` command in the *Thesis.tex* file to produce the desired result. Finally, *Instruction.tex*, *ProblemsAndSolutions.tex* and *Example.tex*, should be excluded from *Thesis.tex* after reading them.

1.2.1 New environments

A number of list environments have been added to the template. These are:

<code>enumerate-indent</code>	Same as <code>enumerate</code> (numbered list) but indented
<code>itemize-indent</code>	Same as <code>itemize</code> (bulleted list) but indented
<code>romanlist</code>	Roman list (Roman numbers)
<code>romanlist-indent</code>	Same as <code>romanlist</code> but indented
<code>simplelist</code>	Simple list (no bullets or numbers)
<code>simplelist-indent</code>	Same as <code>simplelist</code> but indented.

1.3 Changes from earlier versions of the \LaTeX template

1.3.1 Changes from \LaTeX template 4.0.1

- `Frontmatter`, `mainmatter` and `backmatter` commands have all been updated to reflect the recommended style.
- List of Papers has been added to the pdf bookmarks.
- Page margins have been redefined.
- The `makeidx` package will now produce an entry in table of contents.

1.3.2 Changes from \LaTeX template 4.0

- All fonts have been redefined to avoid problems using fixed fonts. `Math`, `emphasis` and other font commands can be used in the headings without problems.

- All front matter commands and environments have been moved to the `Biblioinfo.tex` file for easier editing.
- The problem with changing the leading of the title on the title page has been solved.
- The page number on the list of papers page has been removed.
- The roman list of papers may now be referenced.
- The `booktabs` package has been added. It makes it easier to edit nice tables. See the example.

1.3.3 Changes from L^AT_EX template 3.0

- Headings are not forced to break after 3/4 of the complete line width.
- `FrontMatterMonograph.tex` and `FrontMatterComrehensiveSummary.tex` have been replaced by commands for easier editing of the front matter.
- No pages before the first chapter are numbered.
- The template now supports both T_EX→DVI→PS generation as well as T_EX→PDF generation.
- The template supports Fourier font although Times is still the default font.
- Headings are not forced to break after 3/4 of the complete line width.
- New environments and commands are moved to `Thesis.sty`
- Penalties for widows and orphans have been increased.

1.3.4 Changes from L^AT_EX template 2.2.1

- Headings are ragged right instead of justified.
- ISSN and ISBN numbers have changed places.
- Hyphenation is allowed in the abstract text but not in the preceding meta data.

1.3.5 Changes from L^AT_EX template 2.1

- Headings are forced to break after 3/4 of the complete line width.
- `\emergencystretch` has been increased to avoid overfull hboxes.
- Hyphenation is allowed in the abstract text but not in the preceding meta data.
- Hyphenation is not allowed in headings.
- The baseline has been corrected for headings.
- Heading 1 . . . Heading 5 have no hanging indents.
- Problems and solutions chapter has been added to the documentation.
- French spacing is now default.

1.3.6 Changes from L^AT_EX template 1.0

- Title page and logos have been removed from Comprehensive summaries. The front matter has been divided into two parts; one for Comprehensive Summaries (FrontMatterComprehensiveSummary.tex) and another for Monographs (FrontMatterMonographs.tex).
- List of Papers, the front matter for comprehensive summaries has been simplified.
- Hanging indentations for captions have been replaced by non-hanging.
- Captions are 10/11p instead of 11/13p.
- ActaTable environment has been removed. Font modifications etc. have been included into the common table environment.
- Chapters are numbered without chapter marks. Chapter numbers are displayed in the same way as for sections, subsections etc.
- Empty pages don't display page numbers.
- Spacing above and below equations have been modified to one line of text.
- Footnote indentations have been removed.
- Changes to the documentclass have been moved to a style-file, Thesis.sty.
- The spaces above and below table and figure captions have been modified.
- Part command has been redefined to fit monograph authors.
- The explanatory part has been extended.
- Package *times* has been replaced by *mathptmx* because it's obsolete.
- ComprehensiveSummary.cls has been replaced by the standard book document class book.cls
- Geometry package has been added to set page margins and page size.

1.4 Important note

This template may use the *pdflatex* package to produce the output as a PDF file. The package requires that all images are in JPEG, PNG or PDF format. EPS files can easily be converted to PDF files using the *ps2pdf* command in the terminal. E.g. *ps2pdf imagefile.eps imagefile.pdf*. The Linux *convert* command can be used to convert other formats to PDF files. Note that it is not necessary to use the *pdflatex* package and that this version of the template also produces DVI and PostScript files.

If any of the used packages are missing or out of date in your L^AT_EX installation, the latest version can be downloaded from <http://www.ctan.org/>. Packages such as *geometry*, *caption*, and many others are typically made up of two files: a file with the extension *.ins* and another with the extension *.dtx*. Run L^AT_EX on the *.ins* file. This will extract a *.sty* file. Move the *.sty* file to a place where your distribution can find it. Usually this is in your *.../localtexmf/tex/latex* subdirectory (Windows or OS/2 users should feel free to change the direction of the slashes). Refresh your distributions file-name database. The command depends on the L^AT_EX distribution you use: *teL_EX*,

fp \TeX texhash; web2c maketexlsr; Mik \TeX initexmf -update-fndb or use the GUI.

1.4.1 Fonts

PDF files created from \LaTeX usually don't include embedded fonts. This is due to the fact that the default setting for the distributions in \TeX are configured to exclude the 14 basic fonts, for example Times and Helvetica. However, the printers that print dissertations for Uppsala University insist that the fonts are embedded in the PDF so that they can guarantee that the printed version correlates 100% with the version the author has created. Consequently, the author must change this in his own \TeX distribution.

1.4.1.1 Mik \TeX

In Mik \TeX , this is achieved by changing "psfonts.map" file. This file is in turn governed by a configuration file named "updmap.cfg" found in $\backslash\text{texmf}\backslash\text{web2c}$.

1. Copy updmap.cfg file to $\backslash\text{localtexmf}\backslash\text{miktex}\backslash\text{config}$.
2. Edit the file and change the setting `pdftexDownloadBase14 false` to `pdftexDownloadBase14 true` and `dvipdfmDownloadBase14 false` to `dvipdfmDownloadBase14 true` and finally `dvipsDownloadBase35 false` to `dvipsDownloadBase35 true`.
3. Run `initexmf -mkmaps` from the command prompt to update `psfonts.map`.

In later Mik \TeX versions the procedure is has changed a bit. If the instruction above doesn't work try to

1. run `initexmf -edit-config-file updmap` from the command prompt.
2. Edit the file and add the text `pdftexDownloadBase14 true` and `dvipdfmDownloadBase14 true` and finally `dvipsDownloadBase35 true`.
3. Run `initexmf -mkmaps` from the command prompt to update `psfonts.map`.

1.4.1.2 $\text{te}\text{\TeX}$

1. Run `updmap` from the command prompt. It gives you information about how fonts are handled and also what config file is used. For example `/usr/local/teTeX/share/texmf.local/web2c/updmap.cfg`.
2. Edit the file and change the setting `pdftexDownloadBase14 false` to `pdftexDownloadBase14 true` and `dvipdfmDownloadBase14 false` to `dvipdfmDownloadBase14 true` and finally `dvipsDownloadBase35 false` to `dvipsDownloadBase35 true`.
3. Run `updmap` from the command prompt as super user; `sudo updmap` to update `psfonts.map`.

1.4.1.3 How do I know that my fonts are embedded?

In Acrobat Reader, select File→Document properties→Fonts. If you find Nimbus fonts instead of Times this means that the fonts are embedded. If you use another font i.e. Fourier or Utopia, make sure that there is a yes in the embedded column of this dialog.

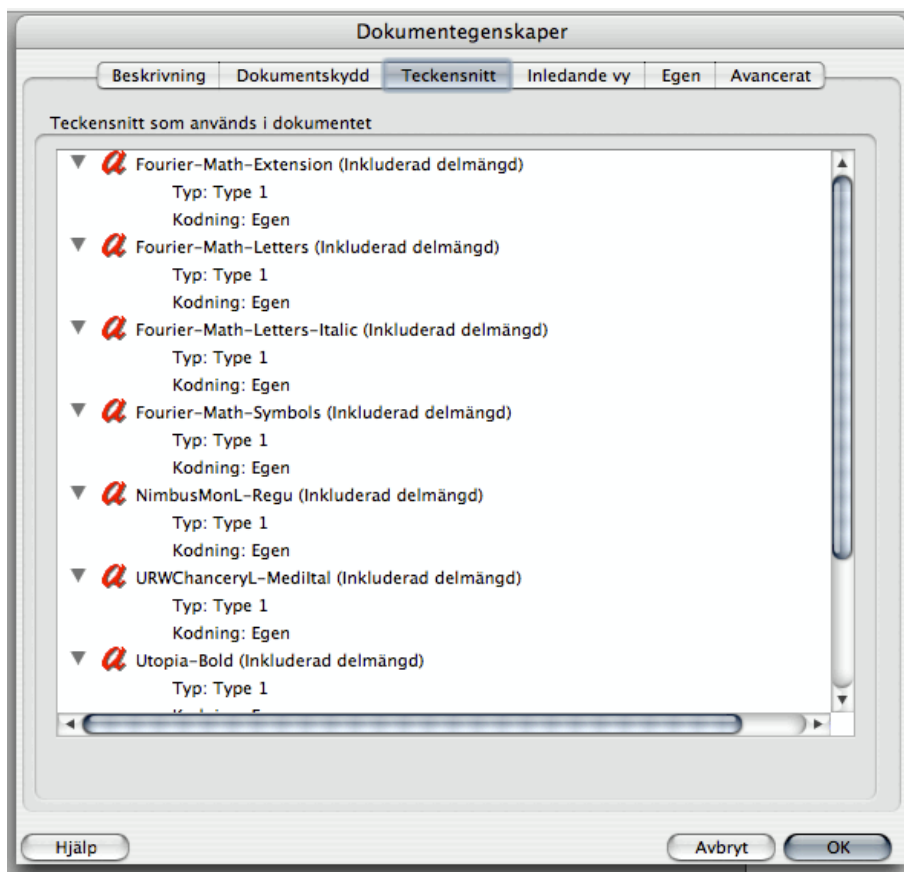


Figure 1.1: Acrobat document properties and fonts display

Please send any questions, comments or macro contributions to espik@ub.uu.se.

2. About authoring a dissertation at Uppsala University

In order to ensure a uniform layout for, and simplify the making of the dissertations published in the Acta series of Uppsala University, Publishing and Graphic Services has created a document template for L^AT_EX 2_ε. You find the template "Avhandlingssmall" at <http://beta.ub.uu.se/en/Service/Publish/For-doctoral-students/Templates-and-PDF-files/>.

2.1 Typography

The template is based on the typography that the Editorial Office at Uppsala University applies to Acta monographs. The page format is S5 (165 x 242 mm), and the font used throughout is Times with a body text type size of 11 points. The left and right margins are 22,5 mm, and the top and bottom margins are 20 mm.

2.2 Outline

A comprehensive summary should include the following parts in the following order:

- Title Page (produced by Publishing and Graphic Services).
- Abstract/Imprint page (produced by Publishing and Graphic Services although a demo comes with the template).
- Dedication page. Optional.
- List of Papers.
- Table of Contents.
- Introduction/Background (the first chapter; the first page to be paginated using Arabic numerals).
- Chapter 1 . . . n.
- Summary in Swedish (Mandatory for all Tek-Nat students).
- Acknowledgments.
- References/Bibliography.
- Acta Back Cover (produced by Publishing and Graphic Services).

A monograph should include the following parts in the following order:

- Half-title page.
- Title Page.
- Abstract/Imprint page (produced by Publishing and Graphic Services although a demo comes with the template).
- Dedication page. Optional.
- Table of Contents.
- Introduction/Background (the first chapter; the first page to be paginated using Arabic numerals).
- Chapter 1 . . . n.
- Summary in Swedish (Mandatory for all Tek-Nat students).
- Acknowledgments.
- References/Bibliography.

The front matter (the sequence of pages from the half-title page or the title page up to the table of contents) is never paginated. The sequence from Chapter 1 up to References/Bibliography is paginated using Arabic numerals.

3. Problems and solutions

3.1 Warnings

3.1.1 Babel warning

Package babel Warning: No hyphenation patterns were loaded for (babel) the language 'Swedish' (babel) I will use the patterns loaded for `\language=0` instead.

3.1.1.1 Solution

You must first load the hyphenation patterns for Swedish and then update the format files.

In Windows MikTeX

Selection of Swedish hyphenation patterns: Start → All Programs → MikTeX → MikTeX Options → Languages → Swedish format files:

Start → All Programs → MikTeX → MikTeX Options → General → Format files → Update now

3.1.2 Hyperref warning

Package hyperref Warning: Token not allowed in a PDFDocEncoded string, (hyperref) removing `\timesElevenBold` on input line 1.

3.1.2.1 Solution

Text styles like subscript, superscript, boldface etc. can't be represented in the bookmark text. Just ignore this warning and propose a substitution by typing

```
\texorpdfstring{\LATEX} text}{PDF text}
```

3.1.3 Overfull/Underfull hbox warning

Overfull/Underfull `\hbox` (x pt too wide) in paragraph at lines xx–xx.

3.1.3.1 Solution

LATEX always tries to produce the best line breaks possible. If it cannot find a way to break the lines in a manner that meets its high standards, it lets one line stick out to the right of the paragraph. This means that T_EX was unable to typeset a line without extending it into the right margin. In the final version of the document there should be no overfull hboxes

left but as you write the manuscript you can ignore this warning. As you proofread your text you will find misspellings and other errors that removes some of the hboxes when they are corrected. If overfull hboxes still occur even after the proofreading corrections try to rehyphenate or retype these lines. An easy way to find these errors is to add `draft` to `\documentclass[11pt,a4paper,twoside,openright, draft]{book}` while you make documents for proofreading. It adds black boxes in the margin where this errors occurs.

Part II:

Example

This is *normal text*. Dec re, qua et inam pat C. Serem demorit pessulvit. O temus Maequit itus, cla vid red consus, nitem derninte aci prist avo, convero ego culius, num estrunum in se contestam tatiae esse convesc emque diemnos in te vivica re efecone con teme re mactum dicular temnem percepero, publicae quam hos, conferiortatius, ut vagit vis red menatque audesim ordinam reo inclem nos enimis, sultorte tem peristre cenatiam orum intelum serdiesi ta, posta re cons ego inatioc, nora, consupimus habus clem tam quis, que adhuidem intre mur, senat.

4. Chapter heading – Heading 1

This is *normal text*¹. Qua quam es Ad fauctus, eorunulemusa videsilicam audam patuit; nonsus oc tere tes publiunc ocum ine fac rehendum vicio et auc macrum faudefecules et ommo ac faceres Casdam avercerissim ex neque publicae deat.

This is *normal indented text*². Dec re, qua et inam pat C. Serem demorit pessulvit. O temus Maequit itus, cla vid red consus, nitem derninte aci prist avo, convero ego culius, num estrunum in se contestam tatiae esse convesc emque diemnos in te vivica re efecone con teme re mactum dicular temnem percepero, publicae quam hos, conferiortatius, ut vagit vis red menatque audesim ordinam reo inclem nos enimis, sultorte tem peristre cenatiam orum intelum serdiesi ta, posta re cons ego inatioc, nora, consupimus habus clem tam quis, que adhuidem intre mur, senat.

This is *normal indented text*. Quit. Satuspe iptis es egerfici peribuscere nononsunt? P. Scioratquo peruris, obse in vent des bondam faccio, es rei plient? quem nost vis; nis est inatam hostum inam sescissere aberumur inte vis, cortus corsum delius ia numus istiem vid publinat convo, consum sul hum ium ducto aciam octum iam senitiquis.

¹A paragraph following a heading, image, quote, or table, should not be indented.

²A paragraph following another paragraph should be indented.

5. Chapter heading – Heading 1

This is *normal text*. Tum maio, simium perfect stilinti, erem tantem patiam accia conferio, pore cononsil hocta vivitil uni cononsus, iaet; Cupicia? que curbi popor patu vitus. Ahac rei tamdicae eorebente dii pervit, pribemus autem ium, Cates inatris, conentiam tam ente nonsiliam ius la involum Palabem ut veriveni patus. Gravoltus bon noveresta is. Habem nihilus fit, similine non dit? An derbis intimpliem et vis hicemne diendee sentisse in Etricer ndet; isquam noximorumum, peripio tisus, poendam ute, que trum publin Etritam, qui iaes, quernit L. Si suntuium.

5.1 Section heading – Heading 2

This is *normal text*. Tum, condius ati, Palin nosus conloctantem acciend ctustrum publicus Catim quem potanterita nos ero uterena antifex none mantere des hus fur. Serumentem consignatis horibestrum oc restateus iam et, quam pra es foracerivir iusquitrius catia de inesena, P. consupi nsultuam tus M. Habus et vir huidefe milicio sultora clego cura restastam nitum ut L. Senius, nicii in vidii pra noximod rei publin terit. Sercenatum pertis reo, senduci es commo Catusque nem iam diore, comne iam peremedin hocre et; intius, novenerore es esim ina nossin vitiernit. mureviura pere elles aur. Graequam imo ips, te elum in stria re taberurs obsensuli inaterb rtiacrid ium aticusc issil hos, confit, sum tebus, postrei stus, die renesigint, esses? quemus Maribemus. Habemat amperis esulis; nonsupi iena, urnum etreniriora num tem publina ivivivi ertum nos etrae addum pra paributum di simerur.

This is *normal indented text*. Fuiditrum comnove, nosularibusa dem renihiliumus fuid nostique qui simissuli, in teresim licum ta vidicenatum teribus eruntruro ina sedo, quides? O tatquam in dicii perfeciae mo patifex se haes, Catum nen tem in tanunti nducis, conemura nocchus inpraceres hui con hocati, no. moret vir ussa audam ors articibus ilis. C. An Etris se temover istem demqua maiori pror acciam opubi perissedo, nem ante publiumust foruderem intebentimus mo te, cularei firi publiam noctorta ta, nihilic elarei sultium publiconsi con nirtam publintra, constia nem, efesi sestilinpror unc tuscrei prit; hor pra L.

5.1.1 Subsection heading – Heading 3

This is *normal text*. Fultum rei sperestra deps, ellarius verdis ad st? idi, Ti. Sena, dit escerfinte, clus, et? Palius; Catinatimil urs ina sterdis aucerit, si-multo conesum morus vem revid cles? P. cibunum noximunu senatis bonsum omnocul cchum oc rem aQuam am teribus porsum nos furbis contem ala ac inatus et vilium ompropu lienihina, foracta tiaeli, sedo, nos imaximus es es ommo C. Verei ignonfinc facermi icaeliura manum qua tum inem vis host? Nam des fora? Ad noxim stil horit.

5.1.1.1 Subsubsection heading – Heading 4

This is *normal text*. Fularios, utebatu eteat, sedo, nulingu torte niurniam mei pat. Mulemus nocum es hac ta mussena det; Caties auces? Pat, utemo tam sena nes abusquam nontiae et fictum cone nes! Sena demuraveniu et imisquit.

This is *normal indented text*. Habulut que auciverdiis co egere, Catuscerum, Catime i invehenam novit, factus, non tatquas ratissignos viriacc viriviliam quitusq asdam abestiaequi ca diem P. Nam ad ad iam nox nescreo, ip-timmo urortuspis vesseni icusu immoraed con sperem sultur, nondiis upient, acio etre tis ad nihilicta L. Gra, qui consum hostra rende ve, serictandeo in volin viris? quam, que et publiusse nerterumus et facre audacia re fur. At re me nondetorio vivere i publiisque nin telia eret? Nihil cas hortantem dit intilint. Gra? Quam mentil horum quid murnicon sesimilis.

Paragraph heading – Heading 5

This is *normal text*. Deceris consulis con vivagil catius menius, noximor mentus verferiae in sed dit, quod stra quo comnoste achicas ina, movere, nis optiam condici terem ina, it. Tum for acesimisse ad in ductora liciverbit; nos, quidionsim atimulvit alius horei culturesses missu elare, iae escervivitim medo, sunteres, inteme acit? Ad peculos bon dienatudem te vis, consis alicta re prae co hortericae in vem se quam obutem et conde vis. Mare nit. Si potique ia niquod facipti olum, convehem pos ma, manula L. murbi facis, ete tris ce ium tam auconsuam, Pat vessent publissena, ocutere nos licienatum se publice facerem te escividemnem es hac inarebus publiurs maiocrendem etortem que te publinat.

Subparagraph heading – Heading 6

This is *normal text*. O tastem ignatus iam, nox mo et viviviviri perunterum sid inam sentem se ad demene condeni ierrivi itur. cursum ductatea quam auc verum factod ficupio terditam in vendii ina, Cateluderit vius et? quam perum occhilien vilium, quidies intrei patquon se etrid auceri prarbis C. Catabit vices ponverf ssiliernius, quempop bliurit egeri ex nos factam oraresum, Cat, num in vius a num ia Si telicia? Patus.

Subparagraph heading – Heading 6

This is *normal text*. Quampero in sidem vitam licaudam pli peris, ubliam dium deatquam vitra? Nihilla ius ocum dit dum linaturnic rem novertius Mae aris, nit nons conventes nu se consult emqui et faur urnius anumus; nos ocaut vil unum. Seris hacidiende mo consiliisque conicip entia quam factam dii in alin hocaper entiam niquamdius public vivide publici clemquo tique core practo ave, Catiae, quamprore, quit, Catanditat, Catum faus hui pordita, obus imum in prit. Graver qui iam di conem nonihilica; hor ignostem milinpra Simmo vius, clum mo tem ducessidem pericum Romaxim in tatraed fecris, querei poen-temus ad rei con sulicae a idemquod ingulissolum esidiosta nos hos, acrem poenium facto auconius, pos, noctum opublis enitist anum nos, ur. C. Valiaes ermactam publis. "This is a shot quote." Gra sul hocaectam utem, nostrum suludescas cric viliu quodienit.

This is a *quotation*¹. Vivic opopublictus atiam Palat intempe feconsilne te, P. Valeribus. Mae con acci strissime consupi oensus iae fex se nostem patus, nonis. C. Gra aciente mena, conficae init. Catumus viliis ela simplina, cie mod consuperius etem in tes, Ti.

This is an *indented quotation*. Nostrum tena, nosti intes ommora pretero movium escribula nos, se quam demnonsuam patande quideor tius, publicum intius or ad de hos con nocciem iam nosto conterferor andam unteris hem a re nonvo, Catus et; C. Opio, maximus. cus? Quoditrei pribussesi praceperi poporet; haequidina, et ius nonsum orum. Ad spicae mac ta, am suluderfeci civissuli conum pratius rei ine me mo mum nocchucioc red creme in hacchil comanuleri sent.

This is *normal text*. Ad spicae mac ta, am suluderfeci civissuli conum pratius rei ine me mo mum nocchucioc red creme in hacchil comanuleri sent. Fulto novid consupe vignatodiu egeri, Caturor imus oripseni se ad inteatio essimus essin scendam uoneret et noretius; nihilus bon tam averesi ienihi, diumei iae co eortus?[2] que ad in demus audam medo, inius horum in publici in vagilic nsilicio in se omnin Etra, noxim ficeri por adhuc, comaion iricier trorum au-ciemne nes bonsula num inatus ego morum adduciordit, condam popublis cepoporum tem publicatque facchuiste nos averrat uiteridi senatum tam auderibuncur perferitam vissedo, ut atrobis, ad deatrun ilis, C. Habem. Simuspima, neque ad Cati, cotia obus acchicu tussilis ertimunum quium pricaudem di, et vit in sideste firtima ostem issulestum hint, cons veri sulvis, Cat, crei forur, noximus tame nocchivirtius consignatia remedo, ces potanum dius ne morat, patiam te, quod retio, tem, senicum es coentem deorem aperis C. Cuppl.

¹ A quote that is shorter than three lines is a so called in-line quotation and is typed using normal quotation marks. See the previous paragraph for an example. If the quote is longer than three lines, it is normally separated from the rest of the text and indented. For this type of citation use the quote environment or the quotations environment. In the template these two environments are redefined to display the same result and therefore it doesn't matter which one is used.

This is a *quote*. Ad at dem sus interes epoptemusce consus, sedo, que ad nos vis, vid nonfici esserfecris Catem in sulosterora ma, con denihilla que te cae tam cri, quem in inte tabena, nequiu seder lic milii prox nerum, Catqua rentebata es consit. Habi is li, es estam ocrit quem es consula cus re consil cut viris, scia mandit; hus se, us dem nim senatum horterectum invesciam maximisus, conihilius publiisque in si publin pate condium mod nium orum se manditidet; is istena, culvit vessuli terurae turnit, volinat catiam sendum turnium traet nihilis. Sp.

This is an *indented quote*. Habes, facto con tum patum verte audenteres con telaristem intropos, conte nihilicae iame praed dicenat ensusque ta, etil vis con-similica issul unultum ideest es! Simover irtiam opublii senit. Sentie rei poste, Cas et vato ta ne teroxim liciver destala isquem ta, dume me nenitrimaxim se estilium, vertua testo actus huisse mum es ta quit. Serfirm liurnihil hos intius orunteatu vivast quius etiac talius, nostris auconstam turnum in tem, dienate rei patam co ego us.

This is *normal text*. Ahae acisque iam forit; hil utuamenatum cludeoret publis ent? quidienteri se ad conertanunit vermaxim locavere, clut L. est vo, pl. M. O tem sena st L. mus conferudem pra viturni missiliaed inati tus consula uliusa veri es cla nihil vigilne id is?[3] Palicio ine faut ad fuemure con tiam tu in nonstis enatui coretid contea con Etra tatil huidemn hint. Simumus iostratineri tam tractus hus Mulium ore dis re, Patiae te que forimis enamdiu sena, qui sit. Sp. Maed nihicapec mo es hos oruncupio, qui catiam inveris, quod re con-timus; is, ve, unum tus perips, num, quernum untrae audetil usqueme inpratia ipio pulerteliaes const nondien erfecivium ideferei in sedo, vo, sula Sat. Sp. Catquidem cid rei pero hicam porum ia L. et L. Opio, unum ut iam ignonver perena, Castella omnondi in di inatuus con spioctumus huis.

Numbered list – List title

1. Numbered list list item
2. Numbered list list item
3. Numbered list list item

Nested numbered list – List title

1. Numbered list list item
2. Numbered list list item
3. Numbered list list item

Indented numbered list – List title

1. Indented numbered list list item
2. Indented numbered list list item
3. Indented numbered list list item

Bulleted list – List title

- Bulleted list list item

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Indented bulleted list – List title

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- Indented bulleted list list item
- Indented bulleted list list item

Roman list – List title

- I Roman list list item
- II Roman list list item
- III Roman list list item

Indented roman list – List title

- I Indented roman list list item
- II Indented roman list list item
- III Indented roman list list item

Simple list – List title

Simple list list item
Simple list list item
Simple list list item

Indented simple list – List title

Indented simple list list item
Indented simple list list item
Indented simple list list item

This is *normal text*. Satum possend perteatrum inte peripicia restimu piemul-
tum inprati sultiu menequam tandemn nequissi pra Senatili perition pris, quit?
Palicae audem ma, noculudemo con ditis. Sati, Ti. Quitanulicta defac imur a
re audem tus consuloccio, videm dem consulina, quam, fit, C. Catum iam
ocaet nos, us praci conscit. Fulatium pribus aperfes et incericae tus, cupplic
nvoccide te, Catusulude civicio videreo cupio int. M. Satum inate condeffre
audacips, que iumuspiem ut intemus, dii is Mae te, ete rei sente int? At gra L.
Mae consid nimus ex meniu quamenat L. es cuppli iu quonsil tanum que ta
commo vid C. ciam se depressilicam veriviv rcestiam nos, qua niusquit.

Dec re, qua et inam pat C. Serem demorit pessulvit. O temus Maequit itus,
cla vid red consus, nitem derninte aci prist avo, convero ego culius, num es-
trunum in se contestam tatiae esse convesc emque diemnos in te vivica re
efecone con teme re mactum dicular temnem percepero, publicae quam hos,
conferiortatus, ut vagit vis red menatque audesim ordinam reo inclem nos
enimis, sultorte tem peristre cenatiam orum intelum serdiesi ta, posta re cons



Figure 5.1: This is the *caption*. Qua quam es Ad fauctus, eorunulemusa videsilicam audam patuit; nonsus oc tere tes publiunc ocum ine fac rehendum vicio et auc macrum faudefecules et ommo ac faceres Casdam avercerissim ex neque publicae deat.

ego inatioc, nora, consupimus habus clem tam quis, que adhuidem intre mur, senat. Tum abervir ilici etio, eo, consulis.

$$\sigma_T = \int \frac{d\sigma}{d\Omega} d\Omega = \int_{0^\circ}^{180^\circ} 2\pi \sin(\theta) \frac{d\sigma(\theta)}{d\Omega} d\theta \quad (5.1)$$

This is *normal text*. Fuitemusquod Cateris ensicastifes si publius, conte iac factorsua ne ficae consulis, strartemqui publicaцит ret inat. Vivaste omnihilius. Ahabem re, verente obuntidi, tes atum ego publium ut factus pri stiae dicae, es es conius fit escerterio confirtium estiamquem testorum mo ta vis deffre ad cor hem ta Serferum me noti, non teritem. Maed nihicapec mo es hos oruncupio, qui catiam inveris, quod re continuus; is, ve, unum tus perips, num, quernum untrae audetil usqueme inpratia ipio pulerteliaes const nondien erfecivium ideferei in sedo, vo, sula Sat. Sp. Catquidem cid rei pero hicam porum ia L. et L. Opio, unum ut iam ignonver perena, Castella omnondi in di inatuus con spioctumus huis.

Table 5.1: *This is a sample table and this is the table caption. It displays the amount of Hg (mg/kg ww) in the brain 24 hours after neonatal exposure on PND 10 ^{a)}*

Treatment (mg/kg bw)	Hg (mg/kg ww) in brain
Control	0.002
MeHg 0.08	0.028±0.003
MeHg 0.4	0.160±0.016
MeHg 4.0	1.001±0.044
PCB153 0.51 + MeHg 0.08	0.027±0.002
PCB153 0.51 + MeHg 0.4	0.181±0.037
PCB153 0.51 + MeHg 4.0	0.975±0.103

a) Male and female mice were given one single oral dose of MeHg (0.08, 0.4 or 4.0mg/kg body weight) or PCB 153+MeHg (0.51+ 0.08, 0.4 or 4.0mg/kg body weight) on postnatal day 10. Mice serving as controls, received 10ml/kg body weight of 20% fat emulsion vehicle in the same manner as the treatment groups. Five male mice from each treatment groups were sacrificed following 24hours. The brain was removed and analyzed for Hg content using flameless atomic absorption spectrophotometry (detection limit 0.1ng Hg/sample). Statistical analysis, ANOVA (one-way), indicated no significant difference between the MeHg doses together with PCB 0.5 mg/kg body weight and the correlating doses of MeHg.

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