

DMET-results

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Preface

This is a Quarto book.

To learn more about Quarto books visit <https://quarto.org/docs/books>.

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1 Introduction

This is a book created from markdown and executable code.

See Knuth (1984) for additional discussion of literate programming.

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2 PDF to JPG Converter

3 Introduction

This Quarto document demonstrates how to convert all PDFs in a folder into JPG images, placing each PDF's pages into its own subfolder.

We'll use **ImageMagick** (`magick`) from the command line.

4 Bash Script

`#!/bin/bash # Convert all PDFs in a folder to JPGs, one JPG per page # Requires ImageMagick installed (provides magick command)`

`input_folder="pdfs" output_folder="jpgs"`

`mkdir -p "$output_folder"`

`for pdf in "$input_folder"/*.pdf; do filename=$(basename "$pdf".pdf) subfolder="$output_folder/$filename" mkdir -p "$subfolder"`

`echo " Converting $filename.pdf ..."`

`# Convert all pages to JPGs`

`magick -density 300 "$pdf" "$subfolder/${filename}_page_%03d.jpg"`

`echo " Saved images in $subfolder"`

`done`

`echo " Conversion complete!"`

5 Bsep

6 Protein Overview (chatGPT generated from Uniprot)

The mouse Bsep protein (UniProt ID: Q9QY30), encoded by the *Abcb11* gene, is known as the bile salt export pump. It is an ATP-binding cassette transporter expressed in the canalicular (apical) membrane of hepatocytes, where it mediates the export of bile salts—bile acids conjugated to amino acids—into bile. Common aliases include BSEP, Bsep, Spgp (sister of P-glycoprotein), and Lith-1. In humans, mutations in the orthologous gene cause progressive familial intrahepatic cholestasis type 2 (PFIC2), a name that is also sometimes referenced in research contexts.