Website
opsri.mpob.gov.my

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OPSRI

Oil Palm SSR Resource Interface

Pocket Manual

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MPOB

Oil Palm SSR Resource Interface (OPSRI)

1. Go to http://opsri.mpob.gov.my

Figure 1: OPSRI Login page

i. Please key in email address and password and click “Submit” button for login.

ii. For a new user, click on the “Not a Member? Register here!” link. The user registration form will be displayed. Please fill in all the information needed (Figure 2).

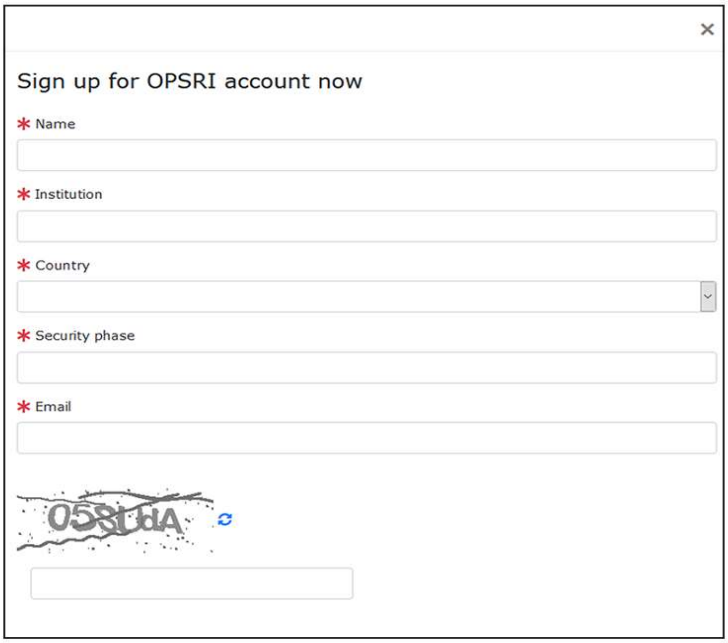

Figure 2: OPSRI registration form

OPSRI Home page

B. Quick Links

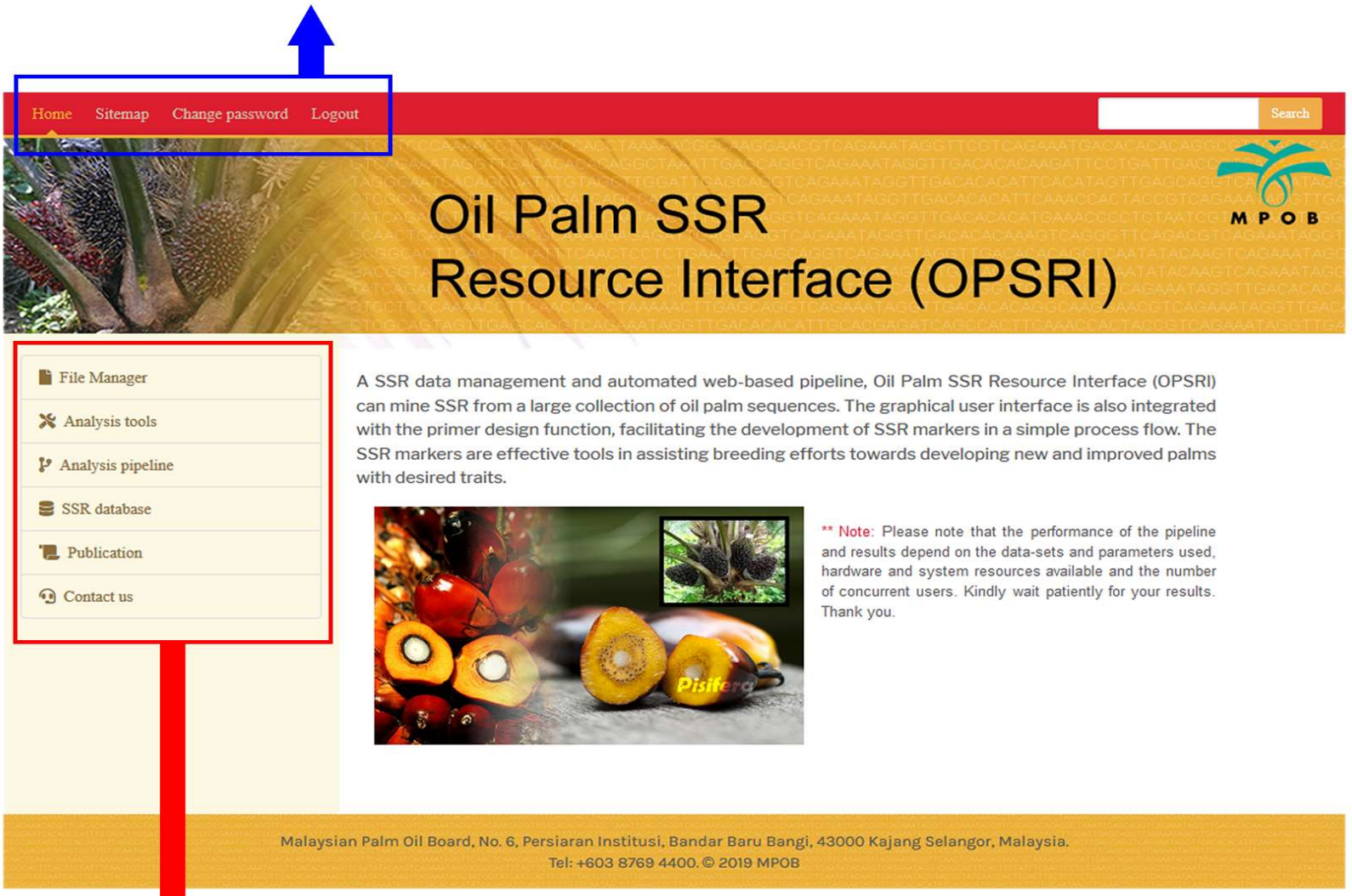

Figure 3: OPSRI Homepage

A. Navigation Menu

A Navigation Menu

1. File Manager

a) Upload your sequence

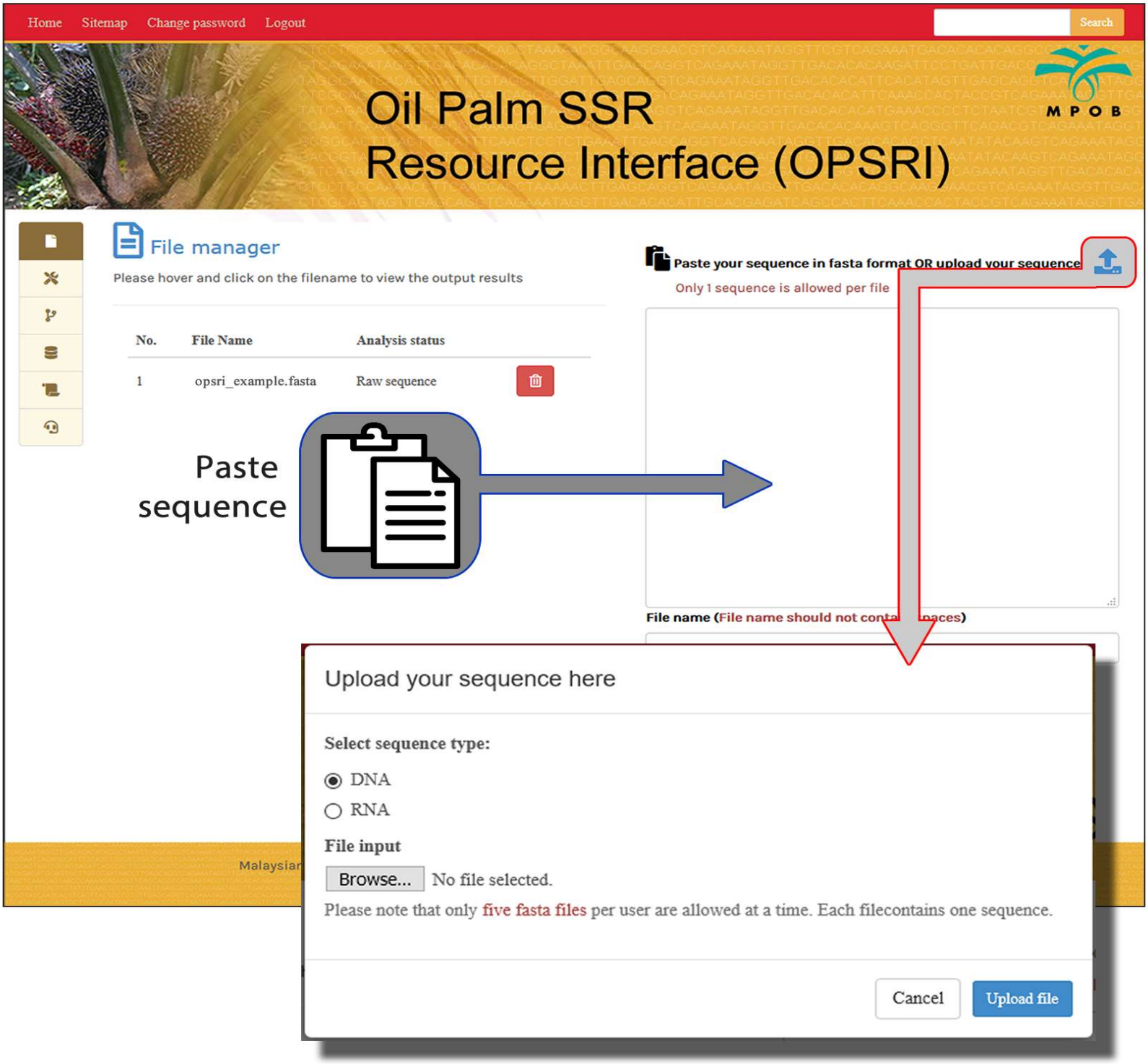

Figure 4: File manager page

b) View uploaded sequence

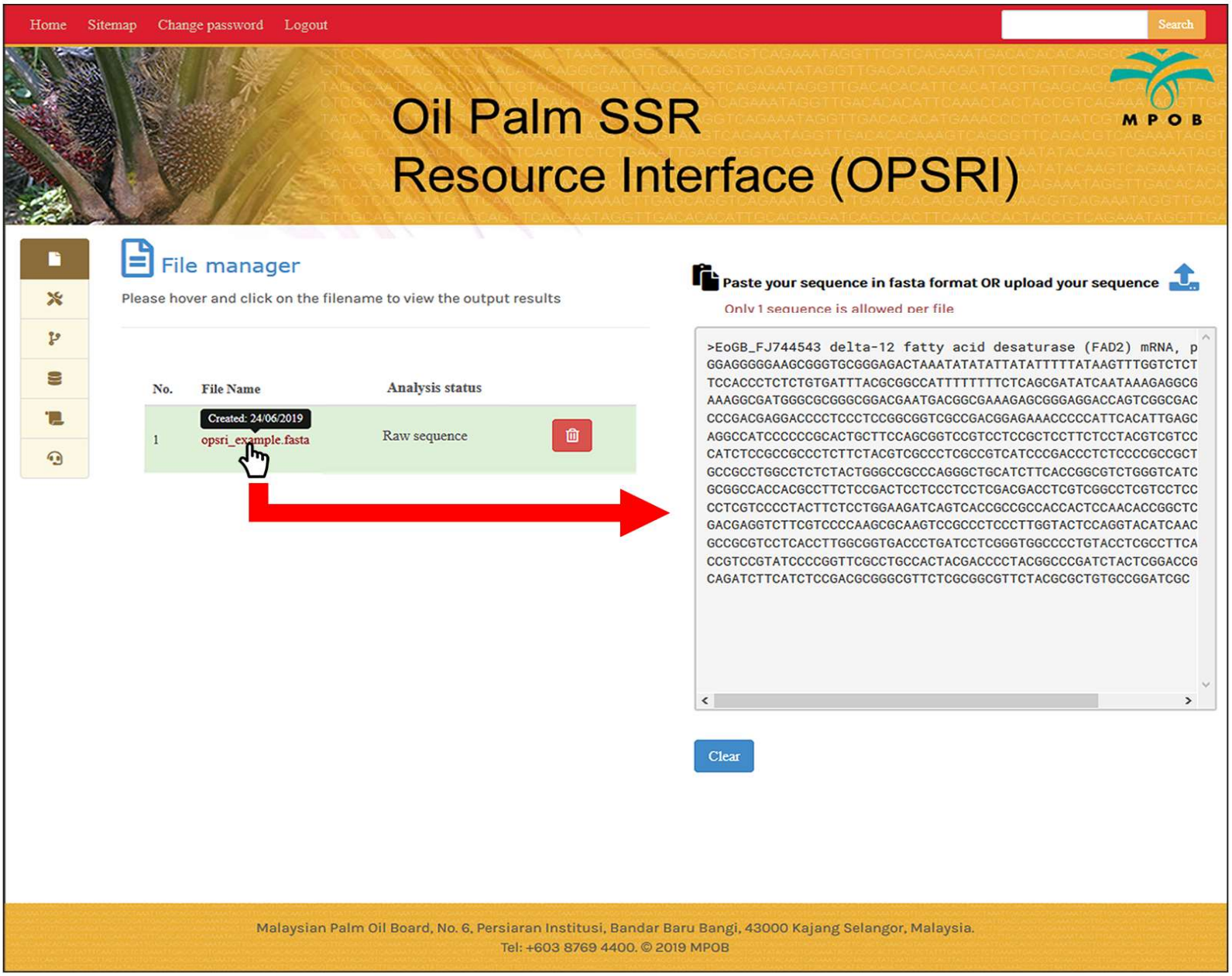

Figure 5: File manager page

A Navigation Menu

c) View analysis results

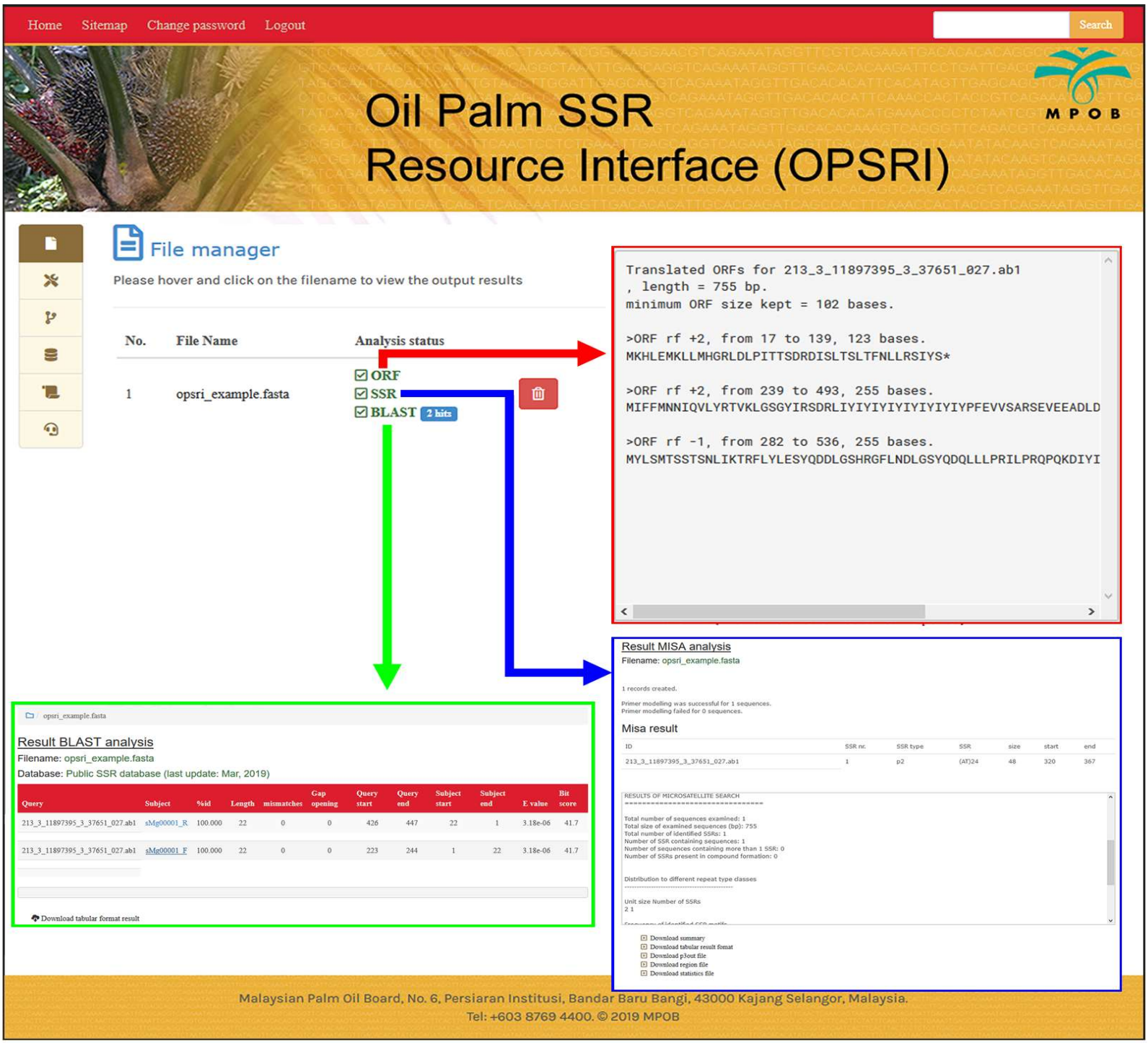

Figure 6: File manager page

A Navigation Menu

2. Analysis tools

Provides a stand alone analysis mode by selecting one of the programs:-

i. Find open reading frames (ORF)
ii. Find Simple Sequence Repeat (SSR)
iii. Find homology sequence

*Please upload FASTA sequence at the File Manager Module and select your file

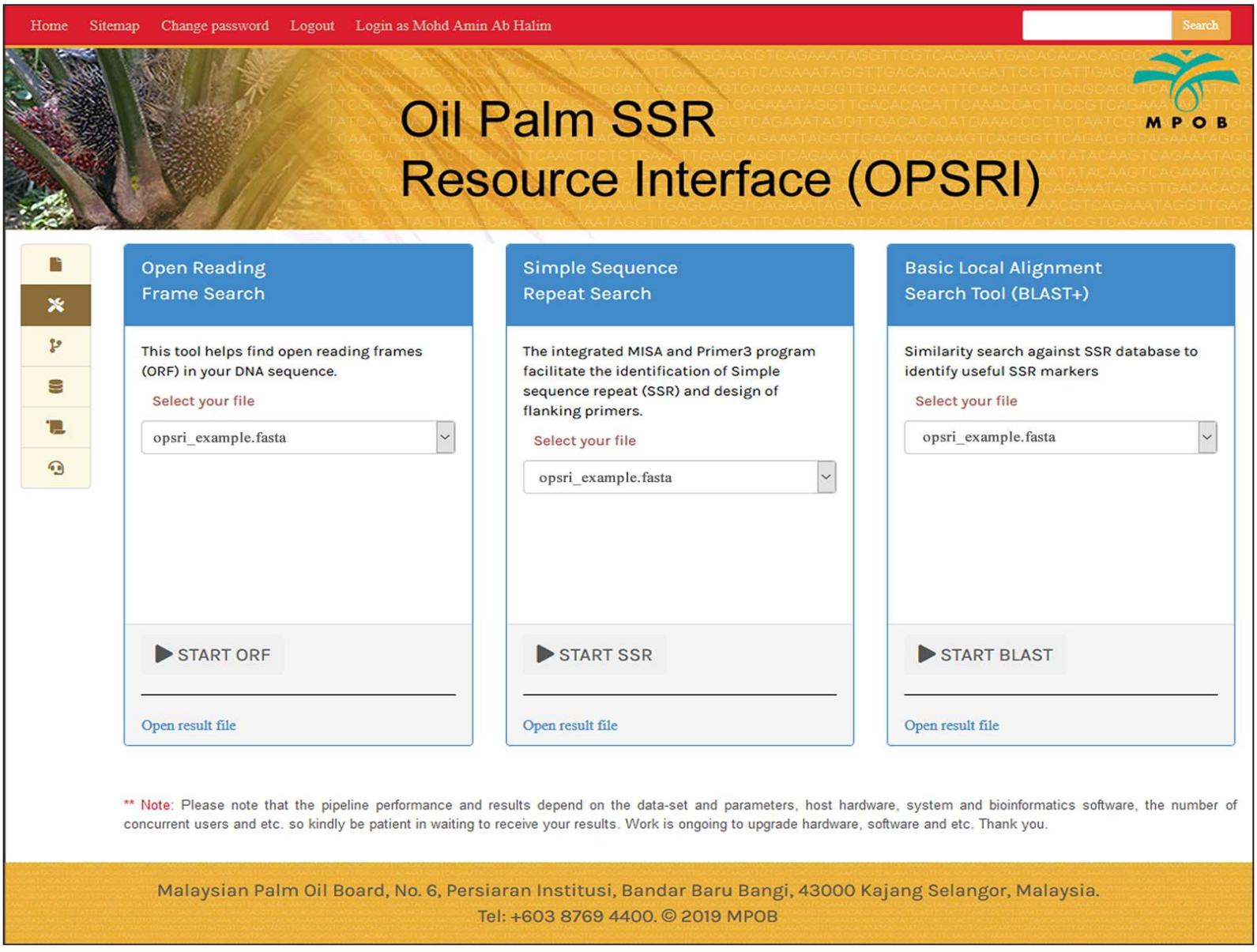

Figure 7: Interface for the user to choose the program of choice

3. Analysis pipeline

Integrated analysis pipeline system with:-

i. Find ORF
ii. MISA
iii. Primer3
iv. BLAST

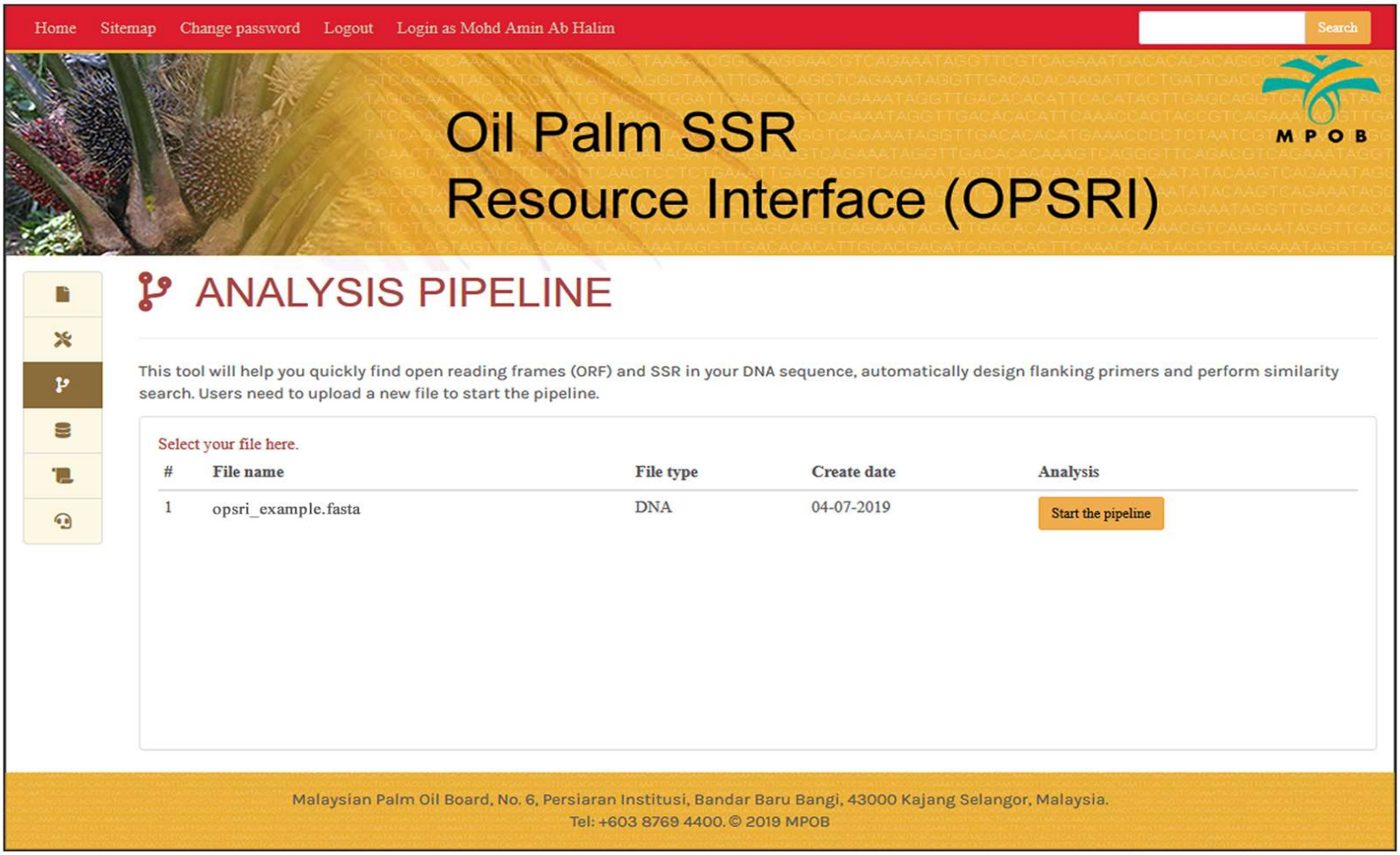

Figure 8: Analysis pipeline page

A Navigation Menu

4. SSR database

Explore a comprehensive collection of oil palm SSR primers. SSR primer pairs that have been tested and found to be polymorphic can be identified using this module.

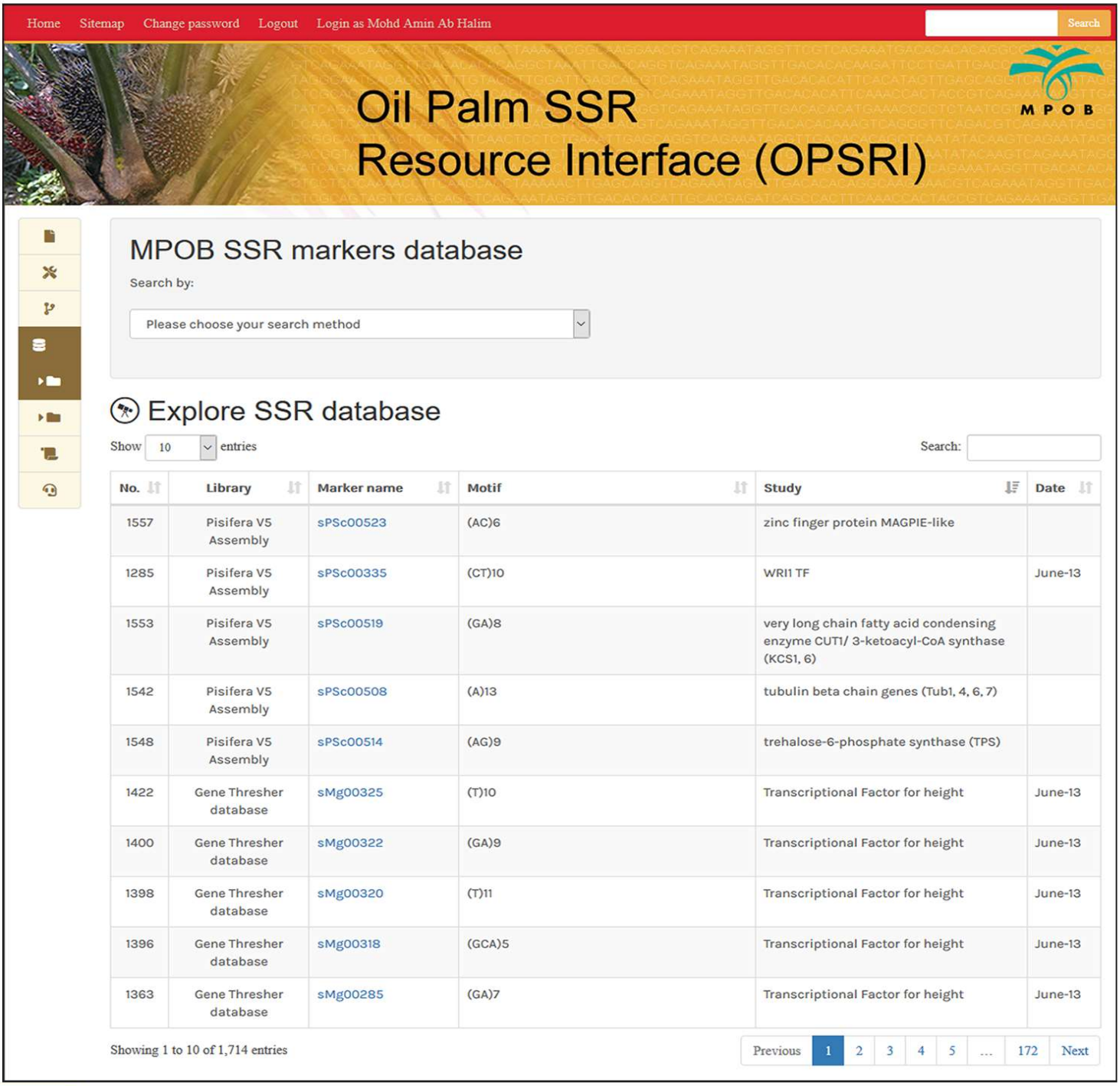

Figure 9: Database module

A Navigation Menu

Search by:-

i. Marker name - Fill in marker name
e.g : sMg00026

ii. SSR type - Choose SSR type at the drop down menu
e.g: p3

iii. Primer sequence - Fill in primer sequence (max 27 char)
e.g: CCCGAATTAAGCCTGATGAA

iv. Screening result - Fill in marker name
e.g: sMg00200

v. Genotyped result - Fill in marker name
e.g: sMg00200

5. Publication

List of publications contribute to the public data in the SSR database

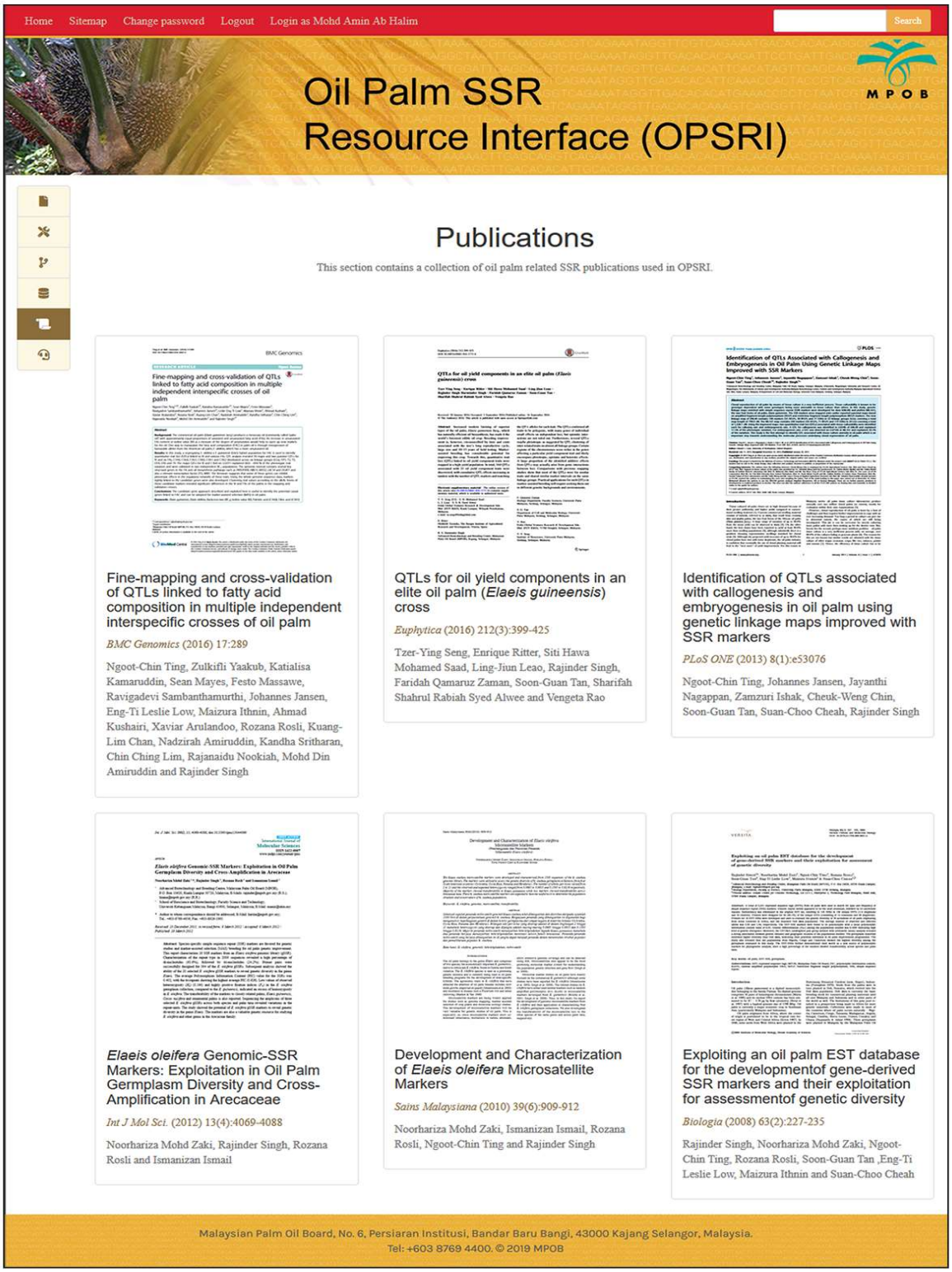

Figure 10: Publication page

6. Contact us

Fast communication method to interact with MPOB

Figure 11: Contact us page

B Quick Links

1. Home

Redirect to the web homepage

2. Sitemap

Redirect to the sitemap page

Figure 12: Sitemap page

3. Change password

Redirect to the change password page

Figure 13: Change password page

4. Logout

Exit the website and go to Login page

Related web tools

http://genomsawit.mpob.gov.my

GENOMSAWIT

MyPalm viewer

http://gbrowse.mpob.gov.my

The Oil palm gene Database

PALMXplore

http://palmxplore.mpob.gov.my

COMPETITIVE EDGE THROUGH BIOTECHNOLOGY

OPSRI is a web-based pipeline system that is integrated with several useful tools, namely MISA, Primer3 and BLAST for SSR, primer design and annotation. Three modules (Analysis, Database and Query) are provided in a graphical user interface to facilitate the task and assist in data archiving. In addition, other useful information such as SSR type, SSR motif, primer information, and marker profile in specific populations is also captured.

Bioinformatics Unit

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