

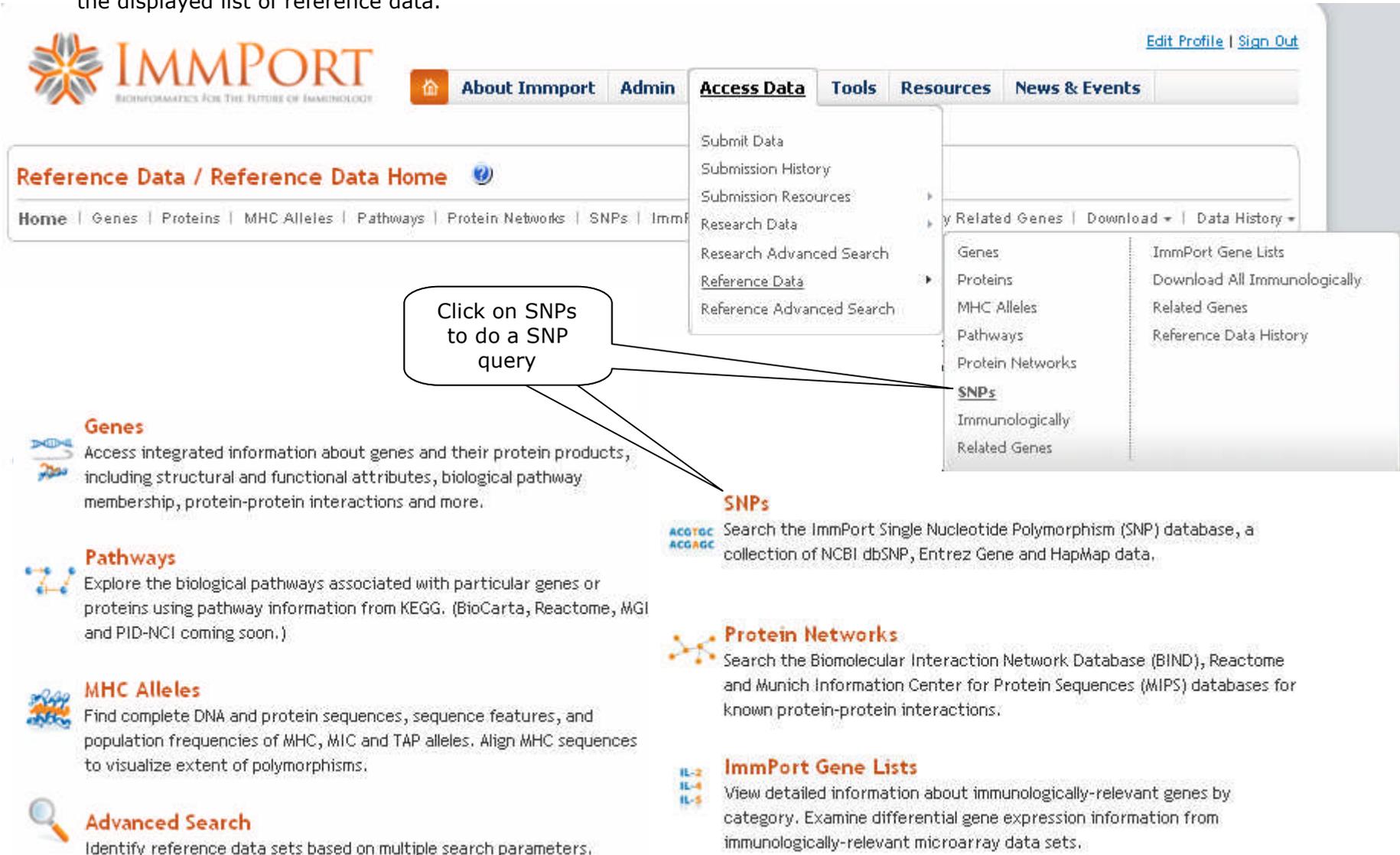
## SNP Query: Searching for Unique Identifiers

Unique identifiers can be accession numbers, which apply to a complete sequence record, or sequence identification numbers, which apply to the individual sequences within a record.

The format of accession numbers varies, depending upon the source database. Some descriptions and examples of typical unique identifiers are given below (adapted from NCBI).

Type of Record Gene ID	Sample Accession Format This refers to the NCBI Entrez Gene ID. The identifier that is assigned is an integer and is species specific. For genomes that had been represented in NCBI LocusLink, the Gene ID is the same as the Locus ID. The Gene ID is reported in RefSeq records as a ?db_xref? (e.g., /db_xref=?Gene ID:856646,? In Gen Bank format).
Type of Record Reference SNP ID	Sample Accession Format The identifier begins with "rs" in lowercase letters and is immediately followed by a string of digits (e.g., rs10019970).
RefSeq mRNA	Two capital letters, an underscore bar, and six digits (e.g., mRNA records : (NM_*): NM_000492).

Click Access Data from ImmPort homepage and select Reference Data. Select SNPs. You can also click on SNPs from the displayed list of reference data.



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**Access Data** dropdown menu:

- Submit Data
- Submission History
- Submission Resources
- Research Data
- Research Advanced Search
- Reference Data**
  - Genes
  - Proteins
  - MHC Alleles
  - Pathways
  - Protein Networks
  - SNPs**
  - Immunologically
  - Related Genes
- Reference Advanced Search

**Reference Data History** dropdown menu:

- Download All Immunologically
- Related Genes
- Reference Data History

**Callout Box:** Click on SNPs to do a SNP query

**Genes**  
Access integrated information about genes and their protein products, including structural and functional attributes, biological pathway membership, protein-protein interactions and more.

**Pathways**  
Explore the biological pathways associated with particular genes or proteins using pathway information from KEGG. (BioCarta, Reactome, MGI and PID-NCI coming soon.)

**MHC Alleles**  
Find complete DNA and protein sequences, sequence features, and population frequencies of MHC, MIC and TAP alleles. Align MHC sequences to visualize extent of polymorphisms.

**Advanced Search**  
Identify reference data sets based on multiple search parameters.

**SNPs**  
Search the ImmPort Single Nucleotide Polymorphism (SNP) database, a collection of NCBI dbSNP, Entrez Gene and HapMap data.

**Protein Networks**  
Search the Biomolecular Interaction Network Database (BIND), Reactome and Munich Information Center for Protein Sequences (MIPS) databases for known protein-protein interactions.

**ImmPort Gene Lists**  
View detailed information about immunologically-relevant genes by category. Examine differential gene expression information from immunologically-relevant microarray data sets.

Click Access Data from ImmPort homepage and select Reference Data. Click on SNPs.

**Reference Data / SNP Query** 

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Fields marked with an asterisk \* are required.

**Search Options**

Search Type*	Gene Symbol ▾
Search Option*	Like ▾
Search Text* (Comma delimited, 1000 max chars)	rs17388568
Search Species* (Multiple)	Homo sapiens <a href="#">Select All</a>
Search dbSNP Version*	dbSNP 126 ▾
SNP Function	locus-region mRNA-utr reference splice-site not specified <a href="#">Select All</a>

Results Per Page: 25 ▾

**Enter the protein query parameters and click submit to view the details**

**Results per page has a max of 100 items**

## SNP Query

Fields marked with an asterisk \* are required.

**Details of the filters on which to do a SNP query**

Search Type\*

- Gene Symbol
- Gene Symbol
- Gene Name
- Gene ID
- SNP ID
- RefSeq mRNA
- Chromosome Region

Search type used in the query

Search Option\*

- Like
- Exact Match
- Start With

Search option operator used in the query

Search Text\*  
(Comma delimited, 1000 max chars)

Search text used in the query like a gene of interest

Search Species\*  
(Multiple)

Select All

Species currently available is only 'Homo sapiens'

SNP Function

- coding-nonsynonymous
- coding-synonymous
- exception
- intron
- locus-region

Select All

SNP function individually or multiple by using the CTRL function.

Results Per Page

Results per page up to a maximum of 100 and click 'Submit'