

HIV/SIV Vaccine Database

Introductory Tour

AIM of this database:

To provide quick access to information about the vaccine research using SIV, HIV and SHIV Research in Nonhuman Primates

The vaccine database was constructed to have relational structure using SYBASE database and the PERL programming language to allow data to be accessible and searchable on the internet. A set of criteria was used to scan the Pubmed for relevant studies to enter into the database giving the priority to most recently published challenge studies, the journals generally considered as the primary source of information pertaining to HIV and SIV vaccine research in nonhuman primates.

The database contains the following tables for data entry:

- Reference
 - Summary
 - Vaccine
 - Challenge
 - Adjuvant
 - Placebo
 - Drug
 - Animal Group
 - Result
 - Inoculation
- (see next page)

Summary table

Vaccine table

Placebo table

Challenge table

Drug table

Inoculation table

Animal Group table

A Relational strategy was used is such a way that data are entered into each table as a separate unit and "anchored" to the Inoculation table

Accessing the Database, click the following URL:

<http://hiv-web.lanl.gov/>

Choosing the "Vaccine Trials" option will open the Vaccine Database Home Page.

HIV Databases

The HIV databases contain data on HIV genetic sequences, immunological epitopes, drug resistance-associated mutations, and vaccine trials. The website also gives access to a large number of tools that can be used to analyze these data. This project is funded by the Division of AIDS of the National Institute of Allergy and Infectious Diseases (NIAID), a part of the National Institutes of Health (NIH). Click on any of the links below to access a database.

[Sequence Database](#)

[Resistance Database](#)

[Immunology Database](#)

[Vaccine Trials Database](#)

[HCV Databases](#)



HIV / SIV Vaccine Trials Database
(work in progress)

Welcome to the HIV/SIV Trials Vaccine Database. This database, funded by the National Institutes of Health, contains information about vaccine studies using SIV and HIV in nonhuman primates. You can access the database in two ways, using the Search Form or the Cross-Table Form.

Search Form

Cross-Table Form

Click on an image to begin

The Search Form can be used to search the database for studies meeting your criteria. It will provide a listing of those studies, and each entry in the list gives a link to detailed information about that study.

The Cross-Table Form can be used to generate cross-tabulated data, based on two criteria that you can select using the pull-down menus on the form. For example, to see a trend of efficacy of DNA vaccines over time, the user can tabulate the Vaccine Type by Year of Publication.

Advisory Board and Contributors

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Please send questions, comments and suggestions to vaccines@llnl.gov

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Searching data in the Vaccine Database

HIV / SIV Vaccine Trials Database
(work in progress)

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Search Form | **Cross-Table Form**

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Close Detail Menus

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There are two ways of accessing the vaccine database

Either using
the Search Form

Or with the
Cross-Table Form

The screenshot shows the 'HIV / SIV VACCINE TRIALS DATABASE' search form. It includes a search bar, a 'Clear Form' button, and a 'Home' link. Below the search bar, there are options for 'Display Format' (set to 'Reference'), 'Order' (set to 'Trial No'), and 'Show' (set to '10' results per page). The form is divided into three main sections: 'OBJECTIVE, SPECIES & PUBLICATION CRITERIA', 'VACCINE CRITERIA', and 'CHALLENGE CRITERIA'. Each section contains several dropdown menus and text input fields for filtering search results. The 'OBJECTIVE' section includes dropdowns for 'Objective' (Any, Challenge, Chemotherapy, Immunogenicity), 'Species/Subspecies' (Cercopithecus aethiops, Macaca fascicularis, etc.), and 'Author'. The 'VACCINE CRITERIA' section includes dropdowns for 'Vaccine Immunogen' (Any HIV-1, HIV-2, SIV, SHIV), 'Type' (Cell/Tissue, DNA, Live attenuated virus), and 'Adjuvant/Stimulant' (Any Adjuvant, AdjuPhos, Adjuvax). The 'CHALLENGE CRITERIA' section includes dropdowns for 'Virus' (Any HIV-1, HIV-2, SIV, SHIV) and 'Route' (Intranasal, Intradermal, Intradermal (Gene Gun DNA-coated gold beads)).

The screenshot shows the 'HIV / SIV Vaccine Trials Database' Cross-Table Form. It features a 'Search Form' and a 'Cross-Table Form' button. Below the buttons, there is a brief description of the Cross-Table Form: 'The Cross-Table Form can be used to generate cross-tabulated data based on two criteria that you can select using the pull-down menus on the form. For example, to see a trend of efficacy of DNA vaccines over time, the user can tabulate the Vaccine Type by Year of Publication. The output for each search will display as a table containing numbers as shown in the example below. The number in each box is the count of trials in which the row value and column value both occurred. Values greater than 0 are hot links and are shown in blue. Clicking on blue values will display the trials which make up that box. The numbers below in brackets [x/y] give the number of animals protected from infection followed by the number of animals in the trials.' Below this text, there is a 'Home' button.

The screenshot shows the 'HIV / SIV VACCINE TRIALS DATABASE' Cross-Table Form output. It features a 'Cross-Table Form' button. Below the button, there is a 'Row Selection' dropdown menu (set to 'Objective') and a 'Column Selection' dropdown menu (set to 'Vaccine Type'). A 'Submit' button is located below the dropdowns. Below the 'Submit' button, there is a text box explaining the Cross-Table Form: 'The Cross-Table Form can be used to generate cross-tabulated data, based on two criteria that you can select using the pull-down menus on the form. For example, to see a trend of efficacy of DNA vaccines over time, the user can tabulate the Vaccine Type by Year of Publication. The output for each search will display as a table containing numbers as shown in the example below. The number in each box is the count of trials in which the row value and column value both occurred. Values greater than 0 are hot links and are shown in blue. Clicking on blue values will display the trials which make up that box. The numbers below in brackets [x/y] give the number of animals protected from infection followed by the number of animals in the trials.' Below this text, there is a 'Home' button.

The search criteria selected in the Search Form are used to retrieve information from 2 compartment of this database the Los Alamos "Current Database" and in most cases to the "Previous Database".

The screenshot shows a web browser window titled "HIV-1/VACCINE TRIALS DATABASE". The page features a search form with several sections: "Database:" (listing Resources CD, Resistance CD, Immunology CD), "Publications:" (listing Abstracts, Reviews, Abstracts, Abstracts, Abstracts, Abstracts), "Vaccine Trials IIR:" (listing HIV-1, HIV-2, HIV-3, HIV-4, HIV-5, HIV-6, HIV-7, HIV-8, HIV-9, HIV-10, HIV-11, HIV-12, HIV-13, HIV-14, HIV-15, HIV-16, HIV-17, HIV-18, HIV-19, HIV-20, HIV-21, HIV-22, HIV-23, HIV-24, HIV-25, HIV-26, HIV-27, HIV-28, HIV-29, HIV-30, HIV-31, HIV-32, HIV-33, HIV-34, HIV-35, HIV-36, HIV-37, HIV-38, HIV-39, HIV-40, HIV-41, HIV-42, HIV-43, HIV-44, HIV-45, HIV-46, HIV-47, HIV-48, HIV-49, HIV-50, HIV-51, HIV-52, HIV-53, HIV-54, HIV-55, HIV-56, HIV-57, HIV-58, HIV-59, HIV-60, HIV-61, HIV-62, HIV-63, HIV-64, HIV-65, HIV-66, HIV-67, HIV-68, HIV-69, HIV-70, HIV-71, HIV-72, HIV-73, HIV-74, HIV-75, HIV-76, HIV-77, HIV-78, HIV-79, HIV-80, HIV-81, HIV-82, HIV-83, HIV-84, HIV-85, HIV-86, HIV-87, HIV-88, HIV-89, HIV-90, HIV-91, HIV-92, HIV-93, HIV-94, HIV-95, HIV-96, HIV-97, HIV-98, HIV-99, HIV-100), and "Vaccine Trials Links:" (listing HIV-1, HIV-2, HIV-3, HIV-4, HIV-5, HIV-6, HIV-7, HIV-8, HIV-9, HIV-10, HIV-11, HIV-12, HIV-13, HIV-14, HIV-15, HIV-16, HIV-17, HIV-18, HIV-19, HIV-20, HIV-21, HIV-22, HIV-23, HIV-24, HIV-25, HIV-26, HIV-27, HIV-28, HIV-29, HIV-30, HIV-31, HIV-32, HIV-33, HIV-34, HIV-35, HIV-36, HIV-37, HIV-38, HIV-39, HIV-40, HIV-41, HIV-42, HIV-43, HIV-44, HIV-45, HIV-46, HIV-47, HIV-48, HIV-49, HIV-50, HIV-51, HIV-52, HIV-53, HIV-54, HIV-55, HIV-56, HIV-57, HIV-58, HIV-59, HIV-60, HIV-61, HIV-62, HIV-63, HIV-64, HIV-65, HIV-66, HIV-67, HIV-68, HIV-69, HIV-70, HIV-71, HIV-72, HIV-73, HIV-74, HIV-75, HIV-76, HIV-77, HIV-78, HIV-79, HIV-80, HIV-81, HIV-82, HIV-83, HIV-84, HIV-85, HIV-86, HIV-87, HIV-88, HIV-89, HIV-90, HIV-91, HIV-92, HIV-93, HIV-94, HIV-95, HIV-96, HIV-97, HIV-98, HIV-99, HIV-100). The search form includes fields for "Database:", "Publications:", "Vaccine Trials IIR:", and "Vaccine Trials Links:". There are also buttons for "Search", "Clear Form", and "Help". The page is dated "News last updated 13 Dec 2003".

Los Alamos Database:
Current Database

EMMES corporation:
Previous Database

Note: Previous or EMMES section of the Database contains information previously collected by Dr Jon Warren which we made accessible through the internet.

Search Form

The search criteria is either the default "any" or a combination of variables which MUST be logically possible

Specify how to display the search results

Sorting order: Trial number, author, title etc.

Total of items to display

1. Objectives

2. Animals

3. Vaccine

Virus: HIV, SIV or SHIV

Type: DNA, Live, attenuated etc.

Adjuvant

Route

3. Challenge

Virus: HIV, SIV or SHIV

Route

Strains

HIV / SIV VACCINE TRIALS DATABASE
(work in progress)

Search Clear Form Home Help

Display Format: Reference Order: Trial No. Show 10 results per page

OBJECTIVE, SPECIES & PUBLICATION CRITERIA

Objective: Any, Challenge, Chemotherapy, Immunogenicity
Species/Subspecies: Any, Cercopithecus aethiops (African Green monkeys), Macaca (sp), Macaca fascicularis (cynomolgus macaque)

Author: _____ Title: _____ Year: _____ Trial No.: _____

VACCINE CRITERIA

Vaccine Immunogen: Any, HIV-1, HIV-2, SIV, SHIV
Type: Any, Cell/Tissue, DNA, Live attenuated virus
Gene/Protein: Any, LTR, gag, pol

Adjuvant/Stimulant: Any, AS-2 adjuvant, Adju-Phos, Adjuver™
Route: Any, Intra-embriotic, Intradermal, Intradermal (Gene Gun DNA-coated gold beads)

CHALLENGE CRITERIA

Virus: Any, HIV-1, HIV-2, SIV, SHIV
Strain: _____
Route: Any, Intra-embriotic, Intradermal, Intradermal (Gene Gun DNA-coated gold beads)

Search Clear Form Home Help

Please send questions, comments and suggestions to vaccines-db.lanl.gov

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Links

Close Detail Menus

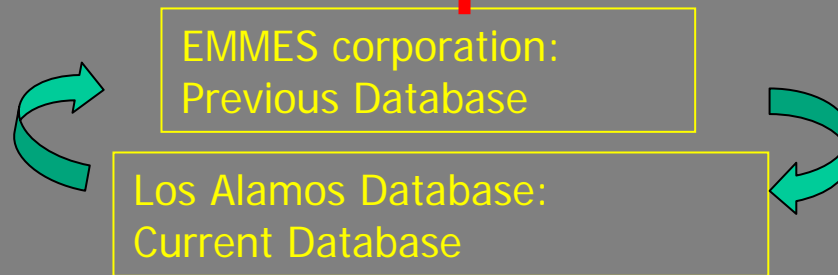
Current Database: Result = 338 trials Page: 1 of 34

Click on a Trial Number for Details

[Help](#)

Display Format
 Order
 Show Results Per Page

Sel	Trial	Author	Year	Pubmed	Title
<input type="checkbox"/>	NHP.1	Belyakov IM	2001	11726972	Mucosal AIDS vaccine reduces disease and viral load in gut reservoir and blood after mucosal infection of macaques.
<input type="checkbox"/>	NHP.2	Cafaro A	2001	11282197	Vaccination with DNA containing tat coding sequences and unmethylated CpG motifs protects cynomolgus monkeys upon infection with simian/human immunodeficiency virus (SHIV89.6P).
<input type="checkbox"/>	NHP.3	11544733	Induction of simian immunodeficiency virus (SIV)-specific CTL in rhesus macaques by vaccination with modified



- As the data are stored in 2 compartments, the search criteria can retrieve data either in the Previous and the current database by clicking the button showing the label “View Trials in Previous Database” or “Current Database”

Note:

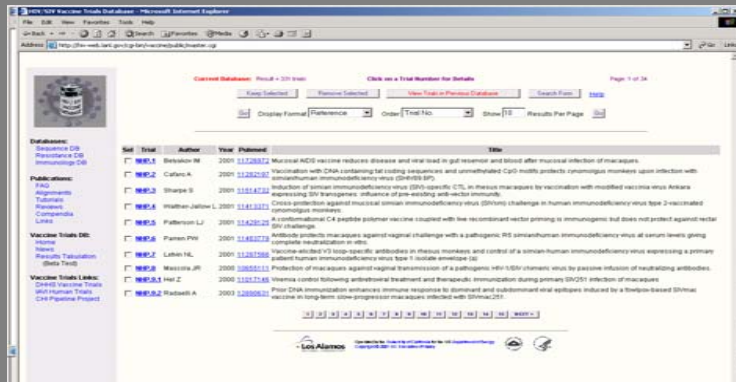
- The “Previous Database” has fewer display choices, and the data was organized by Stage. A “Stage” is generally defined as a point in a trial where results for a group of test subjects were assessed. In some cases, stages span multiple published studies.
- The data in the “Current Database” are not grouped along the concept of stages, and each published paper is treated as a distinct trial (though in a few cases a published study may encompass multiple but directly related experiments)

Searching the database:

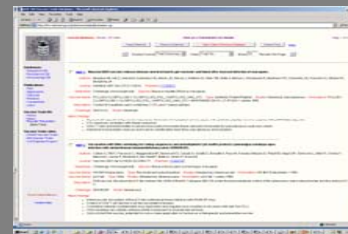
• Example: A user searching the database for any trials, any vaccines, with or without challenge can simply press the “search” button which is the database default for “any”.

• The results can be displayed in “Reference” (or Trials summary or Results) format.

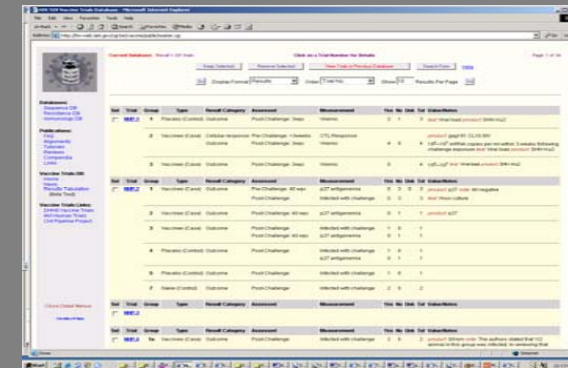
Output



Reference



Trial Summary



Results Details

Cross-Table Form

Tabulation Selection Form

Row Selection:

Column Selection:

[Close This Window](#)

The Cross-Table Form can be used to generate cross-tabulated data, based on two criteria that you can select using the pull-down menus on the form. For example, to see a trend of efficacy of DNA vaccines over time, the user can tabulate the *Vaccine Type* by *Year of Publication*. The output for each search will display as a table containing numbers as shown in the example below. The number in each box is the count of trials in which the row value and column value both occurred. Values greater than 0 are hot links and are shown in blue. Clicking on blue values will display the trials which make up that box. The numbers below in brackets [x/y] give the number of animals protected from infection followed by the number of animals in the trials.

HIV / SIV VACCINE TRIALS DATABASE
(work in progress)

Tabulation Selection Form

Row Selection:

Column Selection:

Input



Vaccine Immunogen x Vaccine Subtype

7/6/04 11:3

Vaccine Immunogen	A	B	C	CRF02_AE	D	F	G	H	J	K	L
HIV-1	1	60 [60/229]	2	1	1	0	0	0	0	0	0
HIV-2	0	0	0	0	0	0	0	0	0	0	0
SHIV	0	5 [5/29]	0	0	0	0	0	0	0	0	0
SIV	0	19 [19/118]	0	0	0	0	0	0	0	0	0

Output

Ongoing development will make it possible to perform direct comparison of trials and to evaluate candidate vaccines in preclinical stage. While this database is under construction, we encourage the users to contact us with suggestions in order to improve the existing and to add new tools.

Thank you