

# 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
- Subject Group
- Subject Substance  
(see next page)

**Summary table**

**Vaccine table**

**Challenge table**

**Substances given to this group**

Delete	Substance Type	Substance ID	Substance Name	Route	Public Notes
<input type="checkbox"/>	Chickonyx	1	SHIF AC31	Intracut	
<input type="checkbox"/>	New				
<input type="checkbox"/>	New				

**Subject Substance table**

**Subject Group table**

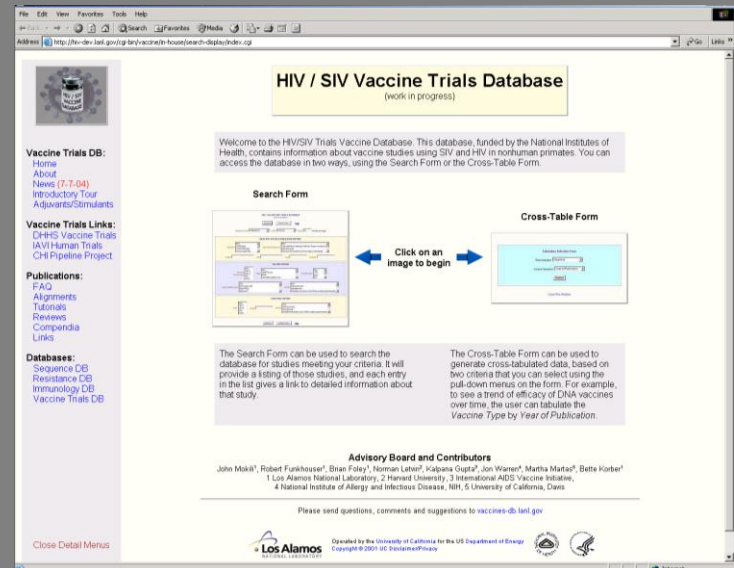
**Adjuvant table**

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

Accessing the Database, click the following URL:

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

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



# Searching data in the Vaccine Database

The screenshot shows a web browser window displaying the "HIV / SIV Vaccine Trials Database" website. The browser's address bar shows the URL: <http://hr-der.lanl.gov/cgi-bin/vaccine/trials-house/search-dept/index.cgi>. The website has a navigation menu on the left with sections: "Vaccine Trials DB:" (Home, About, News [7/7/04], Introductory Tour, Adjuvants/Stimulants), "Vaccine Trials Links:" (DHHS Vaccine Trials, AWH/Human Trials, CHI Pipeline Project), "Publications:" (FAQ, Alignments, Tutorials, Reviews, Compendia, Links), and "Databases:" (Sequence DB, Resistance DB, Immunology DB, Vaccine Trials DB). The main content area features a header "HIV / SIV Vaccine Trials Database (work in progress)" and a welcome message. Below this, there are two forms: "Search Form" and "Cross-Table Form", connected by a double-headed arrow with the text "Click on an image to begin". The Search Form is a complex interface with multiple search criteria and filters. The Cross-Table Form is a simpler interface with two dropdown menus and a search button. Below the forms, there are two paragraphs explaining the functionality of each form. At the bottom, there is an "Advisory Board and Contributors" section listing names and affiliations, and a footer with the Los Alamos National Laboratory logo and copyright information.

**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 these 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**

John Maki<sup>1</sup>, Robert Finkelstein<sup>2</sup>, Brian Foley<sup>3</sup>, Hansman Lenoir<sup>3</sup>, Jalpaia Gupta<sup>4</sup>, Jon Warren<sup>1</sup>, Martha Maturo<sup>1</sup>, Bette Korber<sup>1</sup>  
1 Los Alamos National Laboratory, 2 Harvard University, 3 International AIDS Vaccine Initiative, 4 National Institute of Allergy and Infectious Disease, NIH, 5 University of California, Davis

Please send questions, comments and suggestions to [vaccines-db@lanl.gov](mailto:vaccines-db@lanl.gov)

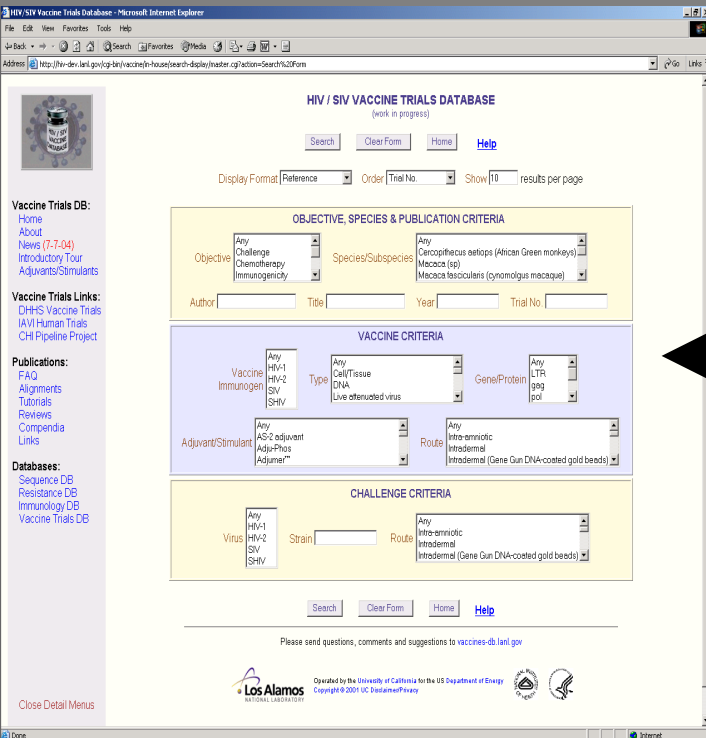
Close Detail Menus

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Copyright © 2001-02 VaccineDB/Phoenix

# There are two ways of accessing the vaccine database

Either using  
the Search Form

Or with the  
Cross-Table Form



**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: Challenge   Species/Subspecies: Cercopithecus aethiops (African Green monkeys)  
Chemo/therapy   Maccaca (sp)  
Immuno/sensitivity   Maccaca fascicularis (ynomolgus maccaque)

Author:   Title:   Year:   Trial No.:

**VACCINE CRITERIA**

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

Adjuvant/Stimulant:   Routes:   Intra-venous   Intradermal   Intradermal (Gene Gun DNA-coated gold beads)

AS2 adjuvant   AdjuvPhi3   AdjuvPhi2

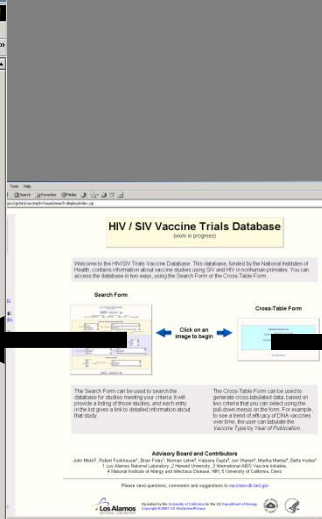
**CHALLENGE CRITERIA**

Virus: Strain:   Routes:   Intra-venous   Intradermal   Intradermal (Gene Gun DNA-coated gold beads)  
HIV-1   HIV-2   SIV   SHIV

Search   Clear Form   Home   Help

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

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**HIV / SIV Vaccine Trials Database**  
(work in progress)

Search Form   Click on an orange link   Cross-Table Form

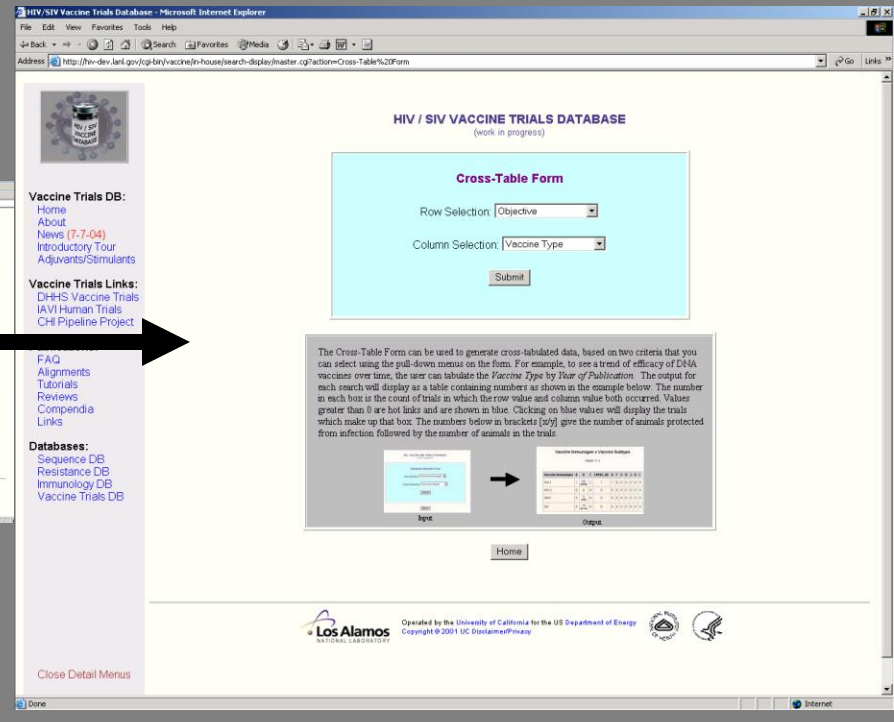
The Search Form can be used to search the Database for abstracts meeting your criteria. It will provide a listing of those articles, and each entry from it gives a link to detailed information about the study.

The Cross-Table Form can be used to generate cross-tabulated data, based on two criteria that you can select from a pull-down menu on the form. The example to the right shows the output of the Cross-Table Form. 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 [2,3] give the number of animals protected from infection followed by the number of animals in the trials.

Advisory Board and Contributors  
John Herold, Robert Fiedler, Bob Foy, Robert Galvani, Andrew Haynes, John Hopper, Mark Huzar, Denis Hunter  
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Please send questions, comments and suggestions to vaccines-db@lanl.gov

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**HIV / SIV VACCINE TRIALS DATABASE**  
(work in progress)

**Cross-Table Form**

Row Selection: Objective   Column Selection: Vaccine Type

Submit

**Vaccine Trials DB:**  
Home  
About  
News (7-7-04)  
Introductory Tour  
Adjuvants/Stimulants

**Vaccine Trials Links:**  
DHHS Vaccine Trials  
IAVI Human Trials  
CHI Pipeline Project

**FAQ**  
Alignments  
Tutorials  
Reviews  
Compendia  
Links

**Databases:**  
Sequence DB  
Resistance DB  
Immunology DB  
Vaccine Trials DB

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 [2,3] give the number of animals protected from infection followed by the number of animals in the trials.

Year of Publication	DNA	Gene Gun
2001	1	1
2002	1	1
2003	1	1
2004	1	1
2005	1	1
2006	1	1
2007	1	1
2008	1	1
2009	1	1
2010	1	1
2011	1	1
2012	1	1
2013	1	1
2014	1	1
2015	1	1
2016	1	1
2017	1	1
2018	1	1
2019	1	1
2020	1	1
2021	1	1
2022	1	1
2023	1	1
2024	1	1
2025	1	1

Home

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# 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

**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-amniotic, Intradermal, Intradermal (Gene Gun DNA-coated gold beads)

**CHALLENGE CRITERIA**

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

Search    Clear Form    Home    Help

Please send questions, comments and suggestions to [vaccines-db.lanl.gov](mailto:vaccines-db.lanl.gov)

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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

Links

- Vaccine Trials DB:**  
[Home](#)  
[About](#)  
[News \(7-7-04\)](#)  
[Introductory Tour](#)  
[Adjuvants/Stimulants](#)
- Vaccine Trials Links:**  
[DHHS Vaccine Trials](#)  
[IAVI Human Trials](#)  
[CHI Pipeline Project](#)
- Publications:**  
[FAQ](#)  
[Alignments](#)  
[Tutorials](#)  
[Reviews](#)  
[Compendia](#)  
[Links](#)
- Databases:**  
[Sequence DB](#)  
[Resistance DB](#)  
[Immunology DB](#)  
[Vaccine Trials DB](#)

Close Detail Menus



# The search results are displayed in a list but details can be obtained using a navigation panel (click on a Trial number to obtain details)

**Current Database:** Result = 331 trials [Click on a Trial Number for Details](#)

Go  Display Format  Reference  Order  Trial No.  Show  10 Results Per

Select	Author	Year	Pubmed	Title
<input type="checkbox"/>	Belyakov IM	2001	<a href="#">11726972</a>	Mucosal AIDS vaccine reduces disease and viral load in gut blood after mucosal infection of macaques.
<input type="checkbox"/>	<a href="#">NHP.2</a> Cafaro A	2001	<a href="#">11282192</a>	Vaccination with DNA containing tat coding sequences and CpG motifs protects cynomolgus monkeys upon infection with simian/human immunodeficiency virus (SHIV89.6P).
<input type="checkbox"/>	<a href="#">NHP.3</a> Sharpe S	2001	<a href="#">11514732</a>	Induction of simian immunodeficiency virus (SIV)-specific CTL macaques by vaccination with modified vaccinia virus Ankara SIV transgenes: influence of pre-existing anti-vector immunity.
<input type="checkbox"/>	<a href="#">NHP.4</a> Walther-Jallow L	2001	<a href="#">11413371</a>	Cross-protection against mucosal simian immunodeficiency challenge in human immunodeficiency virus type 2-vaccinated monkeys.
<input type="checkbox"/>	<a href="#">NHP.5</a> Patterson LJ	2001	<a href="#">11429125</a>	A conformational C4 peptide polymer vaccine coupled with liposome vector priming is immunogenic but does not protect against challenge.
<input type="checkbox"/>	<a href="#">NHP.6</a> Parren PW	2001	<a href="#">11483775</a>	Antibody protects macaques against vaginal challenge with R5 simian/human immunodeficiency virus at serum levels given neutralization in vitro.
<input type="checkbox"/>	<a href="#">NHP.7</a> Letvin NL	2001	<a href="#">11287568</a>	Vaccine-elicited V3 loop-specific antibodies in rhesus monkeys of a simian-human immunodeficiency virus expressing a primary human immunodeficiency virus type 1 isolate envelope (a).

**Databases:**  
Sequence DB  
Resistance DB  
Immunology DB

**Publications:**  
FAQ  
Alignments  
Tutorials  
Reviews  
Compendia  
Links

**Vaccine Trials DB:**  
Home  
News  
Results Tabulation (Beta Test)

**Vaccine Trials Links:**  
DHHS Vaccine Trials  
IAVI Human Trials  
CH1 Pipeline Project

**Details for: NHP.1**

- All Details
- Overview
- Groups
- Inoculations
- Vaccines
- Challenges
- Adjuvants

[Close All Detail Windows for NHP.1](#)  
[Close This Window](#)

**Vaccines for: NHP.1**

**Challenges for: NHP.1**

**Adjuvant/ Stimulant: MONTANIDE ISA 51**

**Chemical/Physical Properties**

**Adjuvant Properties**

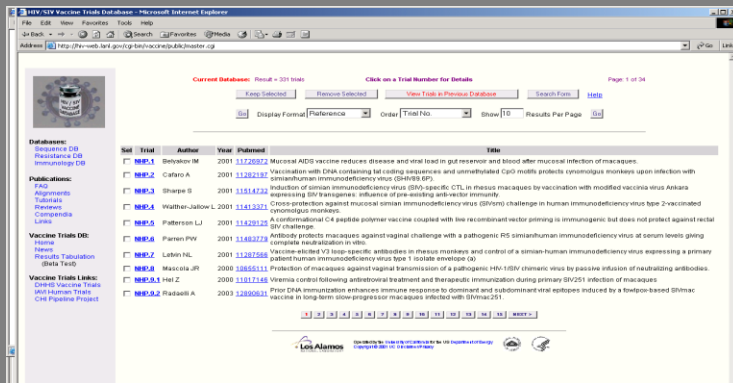
**Compatibility**

# Searching the database:

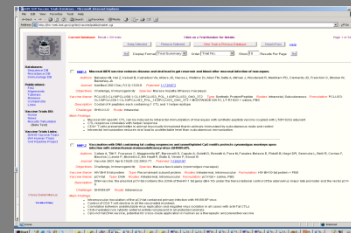
•Example: A user searching the database for any trials, any vaccines, with or without challenge can simply press the “search” button which is the database default for “any”.

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

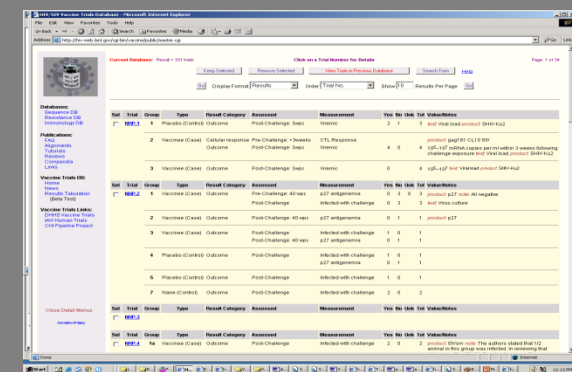
Output



Reference



Trial Summary



Results Details

# Cross-Table Form

**Tabulation Selection Form**

Row Selection: Objective

Column Selection: Vaccine Region

Submit

[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: Vaccine Immunogen

Column Selection: Vaccine Subtype

Submit

Return

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 [60/223]	2	1	1	0	0	0	0	0	0	0
HIV-2	0	0	0	0	0	0	0	0	0	0	0
SHIV	0	5 [5/3]	0	0	0	0	0	0	0	0	0
SIV	0	19 [19/118]	0	0	0	0	0	0	0	0	0

Output

We encourage users to contact us with suggestions for improvement.

Thank you