

## Immune Design Corp

### COMPANY AND PIPELINE OVERVIEW REPORT

A comprehensive coverage of the company and a summary of the drug pipeline portfolio.

Publication Date: 19-Jan-2015

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## ABOUT COMPANY AND PIPELINE OVERVIEW REPORT

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## GLOSSARY

### Number of Drugs in Active Development

Number of drugs associated with the company or subsidiary that are currently in active development, i.e. the development status for the drug(s) is one of the following: Discovery, Clinical, Phase I, Phase II, Phase III, Pre-registration, Registered, Launched, or Suspended.

### Number of Inactive Drugs

Number of drugs associated with the company or subsidiary that are currently classified as inactive, i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.

### Number of Patents as Owner

Number of patents associated with the company where the company is listed as owner; i.e. the relationship type (or way the patent refers to the company) is: Patent Assignee/Owner, Patent owner (not assignee), Licensee for development and marketing, Licensee – marketing only (Distributor), Patent assignee of family member, Inferred assignee.

### Number of Patents as Third Party

Number of patents associated with the company where the company is listed as third party; i.e. the relationship type (or way the patent refers to the company) is: Patent assignee (not owner), Ex-Licensee for development and marketing, Ex-Licensee marketing only (Distributor), Customer of technology, Ex-Customer of technology, Patent opponent or infringer, Affiliate organization of inventor, Owner of underlying technology.

### Patents summary table

This table represents a summary of the core patent coverage for this company covering Therapeutic EP, US and WO patents since 1990 only.

### Number of Deals

A count of deals where the company or one of its subsidiaries is the primary company.

### Key Indications

Displays top ten key indications for the company and its subsidiaries based on frequency (indications occurring with high and identical frequency are always included, and this may result in more than ten Key Indications being listed). Includes both indications associated with patents where the company is patent owner and indications associated with drugs in active development. A drug is classified as 'active' if it features on a row (or rows) in the current development status table where the status is one of the following: Discovery, Clinical, Phase I, Phase II, Phase III, Pre-registration, Registered, Launched, or Suspended.

### Key Target-based Actions

Displays top ten key target-based actions for the company and its subsidiaries based on frequency (actions occurring with high and identical frequency are always included, and this may result in more than ten Key Target-based Actions being listed). Includes both target-based actions associated with patents where the company patent owner and target-based actions associated with drugs in active development. A drug is classified as 'active' if it features on a row (or rows) in the current development status table where the status is one of the following: Discovery, Clinical, Phase I, Phase II, Phase III, Pre-registration, Registered, Launched, or Suspended. A target-based action is one that is associated with a target.

### Key Technologies

Displays top ten key technologies for the company and its subsidiaries based on frequency (technologies occurring with high and identical frequency are always included, and this may result in more than ten Key Technologies being listed). Includes both key technologies associated with patents where the company relationship is patent owner and key technologies associated with drugs in active development. A drug is classified as 'active' if it features on a row (or rows) in the current development status table where the status is one of the following: Discovery, Clinical, Phase I, Phase II, Phase III, Pre-registration, Registered, Launched, or Suspended.

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**PLEASE NOTE:** the financials section where present in the report includes: Share Information, Stock Performance chart (including the consensus recommendation), and Major Shareholders. Financial Performance presents graphical and tabular data on Worldwide Sales, Operating Income and Net Income over time, together with a Quarterly earnings update. Balance Sheet lists Assets, Liabilities and Stockholders Equity, and Forecasts includes: EPS Forecast and Other Forecasts. The data reported in all sections (except share information and major stock holders) are correct as of the publication date of the report (and not the download date). For share information and major stock holders the data is correct for the date shown with these sections

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# Immune Design Corp

## COMPANY OVERVIEW

Company Name	Immune Design Corp
Parent Company Name	Immune Design Corp
Website	<a href="http://www.immunedesign.com/">http://www.immunedesign.com/</a>
Country	US
Number of Drugs in Active Development	9
Number of Inactive Drugs	2
Number of Patents as Owner	12
Number of Patents as Third Party	0
Number of Deals	16
Key Indications	Cancer, HSV-2 infection, Merkel cell carcinoma, Food hypersensitivity, SARS coronavirus infection, Solid tumor, Vaccination, Viral infection, Bacterial infection, Fungal infection, Parasitic infection
Key Target-based Actions	TLR-4 agonist, T-cell surface glycoprotein CD8 stimulator, Cancer testis antigen NY-ESO-1 inhibitor, Carbonic anhydrase-IX stimulator, Glutamate carboxypeptidase II stimulator, HIV GAG protein stimulator, Hemagglutinin stimulator, Homeobox protein Nkx 3.1 stimulator, Prostate specific antigen stimulator, Prostatic acid phosphatase stimulator, Rev protein stimulator, TLR agonist, TLR-4 antagonist, Viral envelope glycoprotein stimulator
Key Technologies	Biological therapeutic, Parenteral formulation unspecified, Systemic formulation unspecified, Virus recombinant, Gene transfer system viral, Drug combination, Intradermal formulation, Intramuscular formulation, Intratumoral formulation, Antigen

## COMPANY PROFILE

### SUMMARY

Immune Design, founded in 2008, a spin-off of California Institute of Technology, aims to develop prophylactic and therapeutic vaccines for infectious diseases, cancer, allergy and autoimmune disorders. The company has identified improved adjuvants and novel technologies targeting and controlling dendritic cells.

In April 2014, the Paris Commercial Court found, among other things, that Henogen SA had breached its contractual obligations to THERAVECTYS by making lentiviral vectors for Immune Design Corp (IDC). In July 2014, THERAVECTYS filed a lawsuit against IDC in the Delaware Court of Chancery, to seek preliminary and permanent injunctive relief, and also monetary damages. THERAVECTYS raised claims of tortious interference with contractual relations, misappropriation of trade secrets, unfair competition and unjust enrichment, by manufacture of lentiviral vectors for IDC by Henogen.

### COMPANY LOCATION

The company is headquartered in Seattle, WA.

By October 2013, the company had expanded operations to include a San Francisco office with plans to further expand in the Bay Area.

### LICENSING AGREEMENTS

In November 2008, the Immune Design Corp was granted a license to the Infectious Disease Research Institute (IDRI)'s Glycopyranosyl Lipid Adjuvant (GLA) technology, for combination with undisclosed therapeutic vaccine products in a number of indications. IDRI would retain worldwide exclusive rights to develop the technology for products against certain indications, including infectious disease, in the developing world, and would retain rights to develop the technology non-commercially for provision to not-for-profit organizations. Immune Design concurrently established its Global Access Plan, to provide better access to GLA-formulated products for diseases in the developing world.

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## FINANCIAL

In October 2014, the company was added to the Russell 2000 Index.

In July 2014, immune design planned to raise \$60 million from an initial offering of 5,000,000 shares, priced at \$12 per share. The company also granted the underwriters a 30-day option to purchase up to 750,000 additional shares of common stock. At that time, the offering was expected to close on July 29, 2014. The shares had begun trading on the NASDAQ Global Market under the symbol "IMDZ". Later in July 2014, the company raised gross proceeds of \$60 million from the closed offering.

In October 2013, the company raised \$49 million in a series C financing which included an upfront investment of \$32.5 million, with an additional investment of \$16.5 million.

In July 2010, Immune Design secured \$32 million in series B financing.

In June 2008, Immune Design raised \$18 million in series A financing.

## COMPANY FINANCIALS

### SHARE INFORMATION

<b>Close Price (USD)</b>	30.15
<b>Change (USD)</b>	-1.99 (-6.19%)
<b>Previous Close Price (USD)</b>	32.14
<b>Volume</b>	50,023
<b>52-Week High (USD)</b>	40.13
<b>52-Week Low (USD)</b>	11.51
<b>Date</b>	16-Jan-2015
<b>Exchange</b>	NASDAQ(COMPOSITE)
<b>Current Number of Shares Outstanding</b>	16,878,817
<b>Current Market Capitalization</b>	508,896,333
<b>EPS (Date Reported)</b>	-0.6984

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## STOCK PERFORMANCE



## MAJOR SHAREHOLDERS

Shareholder	Type	Country	Shares held	% of shares held	Change in holding	% changes in shares held	Date
Fidelity Select Biotechnology Portfolio	Mutual Fund	United States	860,111	5.1	100,511	0.13	30-Nov-2014
Franklin Templeton Invest-Biotechnology Discovery	Mutual Fund	United States	503,800	2.98	503,800	1	31-Oct-2014
Fidelity Advisor Biotechnology Fund	Mutual Fund	United States	164,800	0.98	24,400	0.17	30-Nov-2014
iShares Russell 2000 ETF	Mutual Fund	United States	103,962	0.62	103,962	1	31-Dec-2014
JPMorgan U.S. Small Company Fund	Mutual Fund	United States	97,700	0.58	9,800	0.11	30-Nov-2014
JPMorgan Small Cap Value Fund	Mutual Fund	United States	43,400	0.26	1,000	0.02	30-Nov-2014
iShares Russell 2000 Growth ETF	Mutual Fund	United States	39,650	0.23	39,650	1	31-Dec-2014
Geode Capital Management, L.L.C.	Investment Advisor/Hedge Fund	United States	32,948	0.2	32,948	1	30-Nov-2014

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Vanguard Total Stock Market Index Fund	Mutual Fund	United States	22,590	0.13	22,590	1	30-Nov-2014
VALIC Co I Health Sciences Fund	Mutual Fund	United States	18,700	0.11	0	0	30-Nov-2014
Fidelity Spartan Extended Market Index Fund	Mutual Fund	United States	18,506	0.11	18,506	1	30-Nov-2014
Dreman Value Management, L.L.C.	Investment Advisor/Hedge Fund	United States	18,500	0.11	0	0	30-Nov-2014
Met Investors Series Dreman Small-Cap Value	Mutual Fund	United States	18,500	0.11	0	0	30-Nov-2014
John Hancock Funds II - Health Sciences Fund	Mutual Fund	United States	18,400	0.11	0	0	30-Nov-2014
JP Morgan Small Cap Core Fund	Mutual Fund	United States	18,300	0.11	-600	-0.03	31-Oct-2014
iShares Micro-Cap ETF	Mutual Fund	United States	15,783	0.09	15,783	1	31-Dec-2014
AST Small Cap Value Portfolio	Mutual Fund	United States	13,900	0.08	-600	-0.04	31-Oct-2014
Seasons Series Trust Small Cap Portfolio	Mutual Fund	United States	11,899	0.07	708	0.06	30-Nov-2014
NVIT Multi-Manager Small Cap Value Fund	Mutual Fund	United States	9,800	0.06	-500	-0.05	30-Nov-2014
VALIC Company II - Small Cap Value Fund	Mutual Fund	United States	9,000	0.05	0	0	30-Nov-2014

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## FINANCIAL PERFORMANCE

### Sales and Income



	2013	2012		
<b>Sales (USD M)</b>	1.599	2.96		
<b>Operating Income (USD M)</b>	-15.057	-10.875		
<b>Net Income (USD M)</b>	-15.975	-10.84		

### Quarterly earnings update

Period	Sales (USD M)	Operating Income (USD M)	Net Income (USD M)
2014 Q3	3.544	-6.557	-6.682
2014 Q2	1.064	-4.687	-6.126
2014 Q1	0.025	-5.513	-8.223
2013 Q3	0.129	-3.993	-3.994
2013 Q2	0.882	-3.638	-3.634
2013 Q1	0.564	-2.972	-2.941

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## BALANCE SHEET

### Assets (USD M)

	2012	2013			
Cash & Short Term Investments	12.762	30.387			
Inventories - Total	0.252	0.017			
Current Assets - Total	13.714	30.67			
Property, Plant And Equipment - Net	0.538	0.295			
Other Assets - Total	0	0			
Total Assets	14.252	30.965			

### Liabilities (USD M)

	2012	2013			
Accounts Payable	1.079	0.866			
Short Term Debt & Current Portion Of Long Term Debt	0	0			
Current Liabilities - Total	2.646	1.975			
Long Term Debt	0	0			
Other Liabilities	0	3.336			
Total Liabilities	2.646	5.405			

### Stockholders Equity (USD M)

	2012	2013			
Minority Interest	0	0			
Preferred Stock	52	84.3			
Common Stock	0.003	0.003			
Total Liabilities & Shareholders' Equity	14.252	30.965			

## FORECASTS

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## EPS Forecast

Year ending	Current Forecast	1 month ago	3 months ago
31-Dec-2015	-2.35	-2.35	-1.46
31-Dec-2016	-1.92	-1.92	-1.32
31-Dec-2017	-2.7	-2.7	-1.93

## Other Forecasts

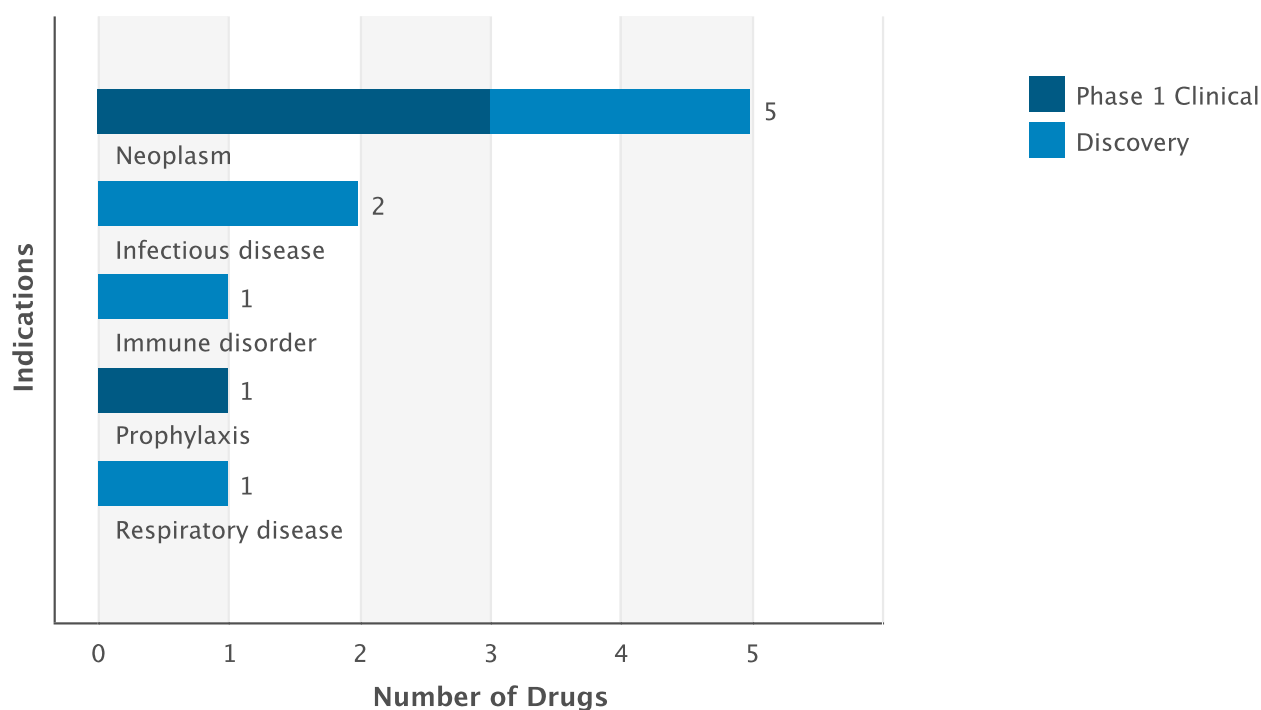
Year ending	DPS	CPS	Pretax	Sales
31-Dec-2015			-37.46	1.4
31-Dec-2016			-44.33	1.41
31-Dec-2017			-66.86	1.41

## PRODUCT PORTFOLIO SUMMARY

### DRUGS

#### Drugs by Indication

Active Drugs by Indication Chart



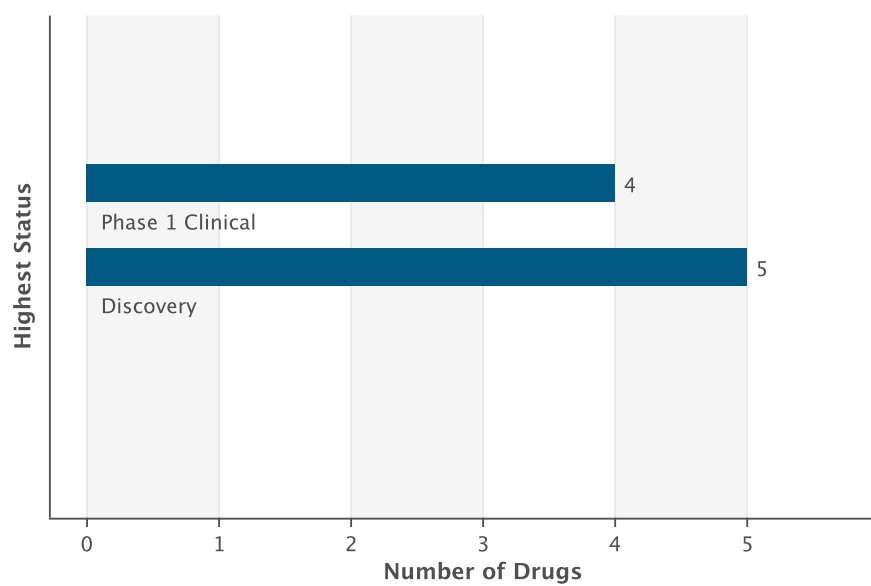
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## Drugs by Indication Table

Indication	Active	Inactive	Total
Neoplasm	5	0	5
Infectious disease	2	2	4
Respiratory disease	1	2	3
Prophylaxis	1	1	2
Immune disorder	1	0	1

## Drugs by Highest Status

### Active Drugs by Highest Status Chart



## Drugs by Highest Status Table

Development Status	Number of Drugs
Phase 1 Clinical	4
Discovery	5
No Development Reported	2

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## DEALS

Deal Type	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Technology - Other Proprietary	1	0	0	0	1
Drug - Early Research/Development	1	0	0	0	1
Drug - Development/Commercialization License	5	0	1	0	6
Drug - Development Services	0	0	6	0	6
Technology - Delivery/Formulation	1	0	1	0	2

## CLINICAL TRIALS

### Trials by Condition Studied

Condition Studied	Ongoing	All
Neoplasm	2	4
Endocrine disease	0	1
Gynecology and obstetrics	0	1
Genitourinary disease	0	1
Respiratory disease	0	1
Dermatological disease	0	1

### Trials by Phase

Phase	Ongoing	All
Phase 2	0	1
Phase 1	2	4

### Phase Definitions

#### Phase 3 Clinical

Includes Phase 3, Phase 3b, Phase 3a, Phase 2/3 (where enrolment count is 300 or over)

#### Phase 2 Clinical

Includes Phase 2, Phase 2a, Phase 2b, Phase 1/2 (where enrolment count is 100 or over), Phase 2/3 (where enrolment count is under 300 or not specified)

#### Phase 1 Clinical

Includes Phase 1, Phase 1a, Phase 1, Phase 1/2 (where enrolment count is under 100 or not specified), Phase 0

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## PATENTS \*

Indication	As Owner	As Third Party	Total
Endocrine disease	1	0	1
Gastrointestinal disease	1	0	1
Genitourinary disease	1	0	1
Andrology	1	0	1
Immune disorder	4	0	4
Neoplasm	8	0	8
Neurological disease	1	0	1
Respiratory disease	4	0	4
Infectious disease	11	0	11
Inflammatory disease	1	0	1
Otorhinolaryngological disease	1	0	1
Gynecology and obstetrics	1	0	1
Dermatological disease	1	0	1

\* This table represents a summary of the core patent coverage for this company covering Therapeutic EP, US and WO patents since 1990 only.

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## PRODUCT PORTFOLIO DRUGS

**PLEASE NOTE:** Highest status refers to highest development of that drug for one of the active companies

### glucopyranosyl lipid A adjuvant, Immune Design Corp

<b>Drug Name</b>	glucopyranosyl lipid A adjuvant, Immune Design Corp
<b>Key Synonyms</b>	
<b>Originator Company</b>	Infectious Disease Research Institute
<b>Active Companies</b>	Immune Design Corp
<b>Inactive Companies</b>	Infectious Disease Research Institute
<b>Highest Status</b>	Phase 1 Clinical
<b>Active Indications</b>	Vaccination
<b>Target-based Actions</b>	TLR-4 agonist
<b>Other Actions</b>	Adjuvant, Immunostimulant
<b>Technologies</b>	Systemic formulation unspecified, Small molecule therapeutic
<b>Last Change Date</b>	13-Apr-2014

### LV-305

<b>Drug Name</b>	LV-305
<b>Key Synonyms</b>	
<b>Originator Company</b>	Immune Design Corp
<b>Active Companies</b>	Immune Design Corp
<b>Inactive Companies</b>	
<b>Highest Status</b>	Phase 1 Clinical
<b>Active Indications</b>	Cancer
<b>Target-based Actions</b>	Cancer testis antigen NY-ESO-1 inhibitor, T-cell surface glycoprotein CD8 stimulator
<b>Other Actions</b>	Anticancer, Retrovirus based gene therapy, Therapeutic vaccine
<b>Technologies</b>	Virus recombinant, Biological therapeutic, Parenteral formulation unspecified, Intradermal formulation
<b>Last Change Date</b>	13-Nov-2014

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### G-305

Drug Name	G-305
Key Synonyms	
Originator Company	Immune Design Corp
Active Companies	Immune Design Corp
Inactive Companies	
Highest Status	Phase 1 Clinical
Active Indications	Cancer
Target-based Actions	TLR-4 agonist
Other Actions	Anticancer, Therapeutic vaccine
Technologies	Intramuscular formulation, Biological therapeutic
Last Change Date	13-Nov-2014

### ID-G100

Drug Name	ID-G100
Key Synonyms	
Originator Company	Immune Design Corp
Active Companies	Immune Design Corp
Inactive Companies	
Highest Status	Phase 1 Clinical
Active Indications	Merkel cell carcinoma
Target-based Actions	TLR-4 agonist
Other Actions	Anticancer, Therapeutic vaccine
Technologies	Intratumoral formulation, Biological therapeutic
Last Change Date	13-Nov-2014

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**IDC-G103**

<b>Drug Name</b>	IDC-G103
<b>Key Synonyms</b>	
<b>Originator Company</b>	Immune Design Corp
<b>Active Companies</b>	Immune Design Corp
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	HSV-2 infection
<b>Target-based Actions</b>	TLR-4 agonist
<b>Other Actions</b>	Therapeutic vaccine, Antiviral
<b>Technologies</b>	Biological therapeutic, Parenteral formulation unspecified
<b>Last Change Date</b>	22-Apr-2014

**therapeutic vaccine (GLA adjuvanted, allergy), Sanofi/Immune Design**

<b>Drug Name</b>	therapeutic vaccine (GLA adjuvanted, allergy), Sanofi/Immune Design
<b>Key Synonyms</b>	
<b>Originator Company</b>	Immune Design Corp
<b>Active Companies</b>	Immune Design Corp, Sanofi
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Food hypersensitivity
<b>Target-based Actions</b>	TLR-4 agonist
<b>Other Actions</b>	Immunomodulator, Therapeutic vaccine
<b>Technologies</b>	Systemic formulation unspecified, Biological therapeutic
<b>Last Change Date</b>	29-Aug-2014

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### checkpoint inhibitors (LV-305 +/-GLA, cancer), Immune Design

<b>Drug Name</b>	checkpoint inhibitors (LV-305 +/-GLA, cancer), Immune Design
<b>Key Synonyms</b>	
<b>Originator Company</b>	Immune Design Corp
<b>Active Companies</b>	Immune Design Corp
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Cancer
<b>Target-based Actions</b>	TLR-4 agonist
<b>Other Actions</b>	Retrovirus based gene therapy, Anticancer, Therapeutic vaccine, Immunostimulant
<b>Technologies</b>	Biological therapeutic, Parenteral formulation unspecified, Gene transfer system viral
<b>Last Change Date</b>	28-Jul-2014

### LV-305 + G-305

<b>Drug Name</b>	LV-305 + G-305
<b>Key Synonyms</b>	
<b>Originator Company</b>	Immune Design Corp
<b>Active Companies</b>	Immune Design Corp
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Solid tumor
<b>Target-based Actions</b>	T-cell surface glycoprotein CD8 stimulator, TLR-4 agonist
<b>Other Actions</b>	Anticancer, Retrovirus based gene therapy, Therapeutic vaccine
<b>Technologies</b>	Drug combination, Virus recombinant, Biological therapeutic, Parenteral formulation unspecified
<b>Last Change Date</b>	13-Nov-2014

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**RBD-S SARS vaccine (SARS), Sabin Vaccine Institute/Baylor College of Medicine/Immune Design Corporation/Walter Reed Army Institute of Research**

<b>Drug Name</b>	RBD-S SARS vaccine (SARS), Sabin Vaccine Institute/Baylor College of Medicine/Immune Design Corporation/Walter Reed Army Institute of Research
<b>Key Synonyms</b>	
<b>Originator Company</b>	Baylor College of Medicine
<b>Active Companies</b>	Immune Design Corp, Sabin Vaccine Institute, Baylor College of Medicine, Walter Reed Army Institute of Research
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	SARS coronavirus infection
<b>Target-based Actions</b>	
<b>Other Actions</b>	Protein subunit vaccine, Prophylactic vaccine
<b>Technologies</b>	Biological therapeutic, Parenteral formulation unspecified, Protein recombinant
<b>Last Change Date</b>	15-Nov-2014

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