

## Heat Biologics

### COMPANY AND PIPELINE OVERVIEW REPORT

Coverage of the company and a summary of the drug pipeline portfolio.

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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i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.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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# Heat Biologics

## COMPANY OVERVIEW

Company Name	Heat Biologics
Parent Company Name	Heat Biologics
Website	http://heatbio.com/
Country	US
Number of Drugs in Active Development	6
Number of Inactive Drugs	2
Number of Patents as Owner	1
Number of Patents as Third Party	2
Number of Deals	1
Key Indications	Ovary tumor,HIV infection,Non-small-cell lung cancer,Bladder cancer,Hepatitis C virus infection,Metastatic non small cell lung cancer,Lung tumor,Adenocarcinoma,Cancer,Lymphoma
Key Target-based Actions	Endoplasmin modulator,CD80 modulator,Death receptor-3 antagonist,HLA antigen modulator,Tumor necrosis factor 15 ligand inhibitor,Tumor necrosis factor 15 ligand modulator,Endoplasmin stimulator,B-lymphocyte antigen CD20 inhibitor,CD74 antagonist,CD80 gene stimulator,HIV gp120 protein stimulator,HLA gene stimulator
Key Technologies	Biological therapeutic,Protein fusion,Cell therapy,Parenteral formulation unspecified,Antigen,Antibody fragment,Monoclonal antibody,Injectable formulation,Chimeric antibody,Drug combination,Polynucleotide sequence,Protein recombinant,Tumor antigen,Vector expression

## COMPANY PROFILE

### SUMMARY

Heat Biologics is a clinical-stage company, formed in July 2008, by Seed One Ventures and The University of Miami Miller School of Medicine to advance Heatshock and Inhibitor technology developed by researchers at the University. The company focuses on development of its novel "ImPACT" (Immune Pan-Antigen Cytotoxic Therapy) off-the-shelf therapeutic vaccines to combat a wide range of cancers and other diseases.

### FINANCIAL

In May 2010, the company closed an initial round of funding.

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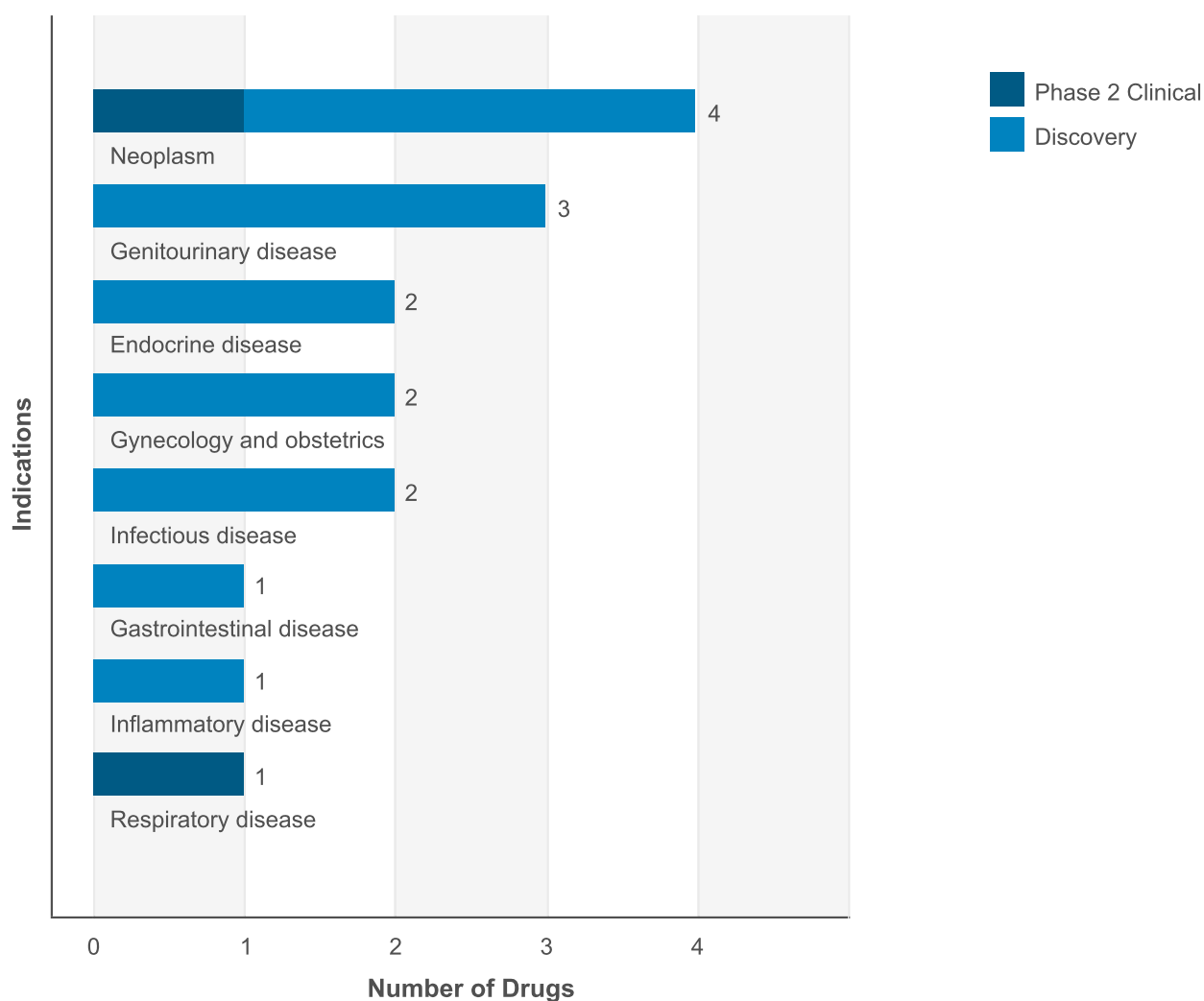


## PRODUCT PORTFOLIO SUMMARY

### DRUGS

#### Drugs by Indication

Active Drugs by Indication Chart



Drugs by Indication Table

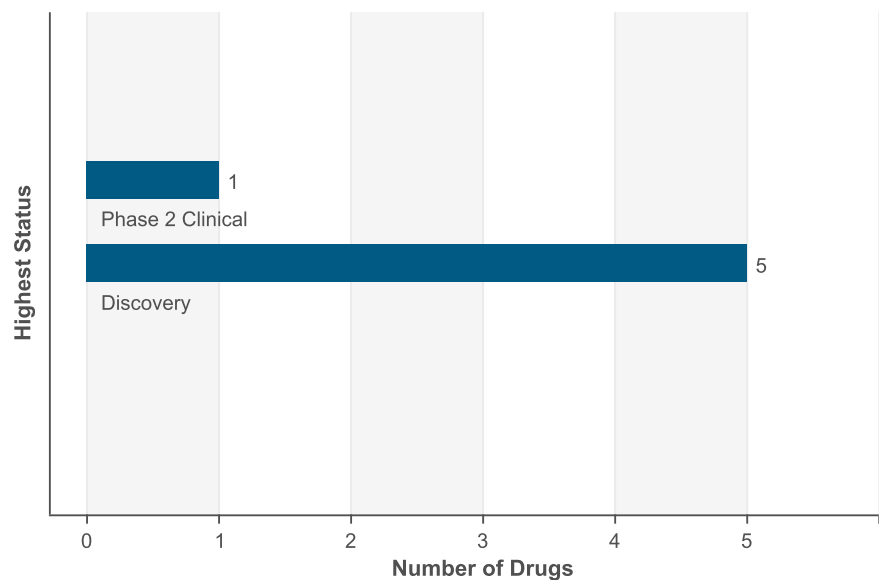
Indication	Active	Inactive	Total
Neoplasm	4	0	4
Genitourinary disease	3	0	3
Gynecology and obstetrics	2	0	2
Inflammatory disease	1	1	2
Endocrine disease	2	0	2

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Respiratory disease	1	1	2
Infectious disease	2	0	2
Gastrointestinal disease	1	1	2
Prophylaxis	0	1	1
Immune disorder	0	1	1
Surgical procedure	0	1	1

# Drugs by Highest Status

Active Drugs by Highest Status Chart



Drugs by Highest Status Table

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

# DEALS

Deal Type	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Drug - Funding	1	0	0	0	1

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## CLINICAL TRIALS

### Trials by Condition Studied

Condition Studied	Ongoing	All
Respiratory disease	1	1
Neoplasm	1	1

### Trials by Phase

Phase	Ongoing	All
Phase 2	1	1

### 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

## PATENTS \*

Indication	As Owner	As Third Party	Total
Immune disorder	0	1	1
Neoplasm	0	2	2
Hematological disease	0	1	1
Respiratory disease	0	2	2
Infectious 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

### HS-110

<b>Drug Name</b>	HS-110
<b>Key Synonyms</b>	
<b>Originator Company</b>	Heat Biologics
<b>Active Companies</b>	Heat Biologics
<b>Inactive Companies</b>	
<b>Highest Status</b>	Phase 2 Clinical
<b>Active Indications</b>	Non-small-cell lung cancer, Metastatic non small cell lung cancer
<b>Target-based Actions</b>	Endoplasmic modulator, HLA antigen modulator, CD80 modulator
<b>Other Actions</b>	Therapeutic vaccine, Anticancer, Genetically engineered autologous cell vaccine
<b>Technologies</b>	Cell therapy, Injectable formulation, Antigen, Biological therapeutic, Protein fusion
<b>Last Change Date</b>	26-Apr-2012

### HS-HIV/SIV

<b>Drug Name</b>	HS-HIV/SIV
<b>Key Synonyms</b>	
<b>Originator Company</b>	Heat Biologics
<b>Active Companies</b>	Heat Biologics
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	HIV infection
<b>Target-based Actions</b>	Endoplasmic modulator
<b>Other Actions</b>	Prophylactic vaccine, Therapeutic vaccine, Genetically engineered autologous cell vaccine, Antiviral
<b>Technologies</b>	Antibody fragment, Cell therapy, Antigen, Biological therapeutic, Protein fusion
<b>Last Change Date</b>	27-Apr-2012

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## HS-HCV

<b>Drug Name</b>	HS-HCV
<b>Key Synonyms</b>	
<b>Originator Company</b>	Heat Biologics
<b>Active Companies</b>	Heat Biologics
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Hepatitis C virus infection
<b>Target-based Actions</b>	Endoplasmin modulator
<b>Other Actions</b>	Prophylactic vaccine, Therapeutic vaccine, Genetically engineered autologous cell vaccine, Antiviral
<b>Technologies</b>	Cell therapy, Antigen, Biological therapeutic, Parenteral formulation unspecified, Protein fusion
<b>Last Change Date</b>	26-Apr-2012

## HS-210

<b>Drug Name</b>	HS-210
<b>Key Synonyms</b>	
<b>Originator Company</b>	Heat Biologics
<b>Active Companies</b>	Heat Biologics
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Ovary tumor
<b>Target-based Actions</b>	Endoplasmin modulator
<b>Other Actions</b>	Therapeutic vaccine, Anticancer, Genetically engineered autologous cell vaccine
<b>Technologies</b>	Antibody fragment, Cell therapy, Antigen, Biological therapeutic, Parenteral formulation unspecified, Protein fusion
<b>Last Change Date</b>	27-Apr-2012

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### HS-310

<b>Drug Name</b>	HS-310
<b>Key Synonyms</b>	
<b>Originator Company</b>	Heat Biologics
<b>Active Companies</b>	Heat Biologics
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Ovary tumor
<b>Target-based Actions</b>	Endoplasmin modulator
<b>Other Actions</b>	Therapeutic vaccine, Anticancer, Genetically engineered autologous cell vaccine
<b>Technologies</b>	Antibody fragment, Cell therapy, Antigen, Biological therapeutic, Parenteral formulation unspecified, Protein fusion
<b>Last Change Date</b>	27-Apr-2012

### HS-410

<b>Drug Name</b>	HS-410
<b>Key Synonyms</b>	
<b>Originator Company</b>	Heat Biologics
<b>Active Companies</b>	Heat Biologics
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Bladder cancer
<b>Target-based Actions</b>	Endoplasmin modulator
<b>Other Actions</b>	Therapeutic vaccine, Anticancer, Genetically engineered autologous cell vaccine
<b>Technologies</b>	Antibody fragment, Cell therapy, Biological therapeutic, Parenteral formulation unspecified, Protein fusion
<b>Last Change Date</b>	18-Jul-2012

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