INFINITY PHARMACEUTICALS INC Form 425 September 11, 2006

Filed by Discovery Partners International, Inc. Pursuant to Rule 425

Under the Securities Act of 1933

and Deemed Filed Pursuant to Rule 14a-12

Under the Securities Exchange Act of 1934

Subject Company: Infinity Pharmaceuticals, Inc.

Commission File No. 333-134438

Additional Information about the DPI-Infinity Merger and Where to Find It

In connection with the proposed merger between Discovery Partners International, Inc. (DPI) and Infinity, on August 7, 2006, DPI filed an amended registration statement on Form S-4 that contains a proxy statement/prospectus, which registration statement has been declared effective by the SEC. Investors and security holders of DPI and Infinity are urged to read the proxy statement/prospectus (including any amendments or supplements to the proxy statement/prospectus) regarding the proposed merger because it contains important information about DPI, Infinity and the proposed merger. Security holders will be able to obtain a copy of the proxy statement/prospectus, as well as other filings containing information about DPI and Infinity, without charge, at the SEC s Internet site (http://www.sec.gov). Copies of the proxy statement/prospectus can also be obtained, without charge, by directing a request to Discovery Partners International, Inc., 9640 Towne Centre Drive, San Diego, CA 92121, Attention: Investor Relations, Telephone: (858) 455-8600.

Participants in the solicitation

DPI and its directors and executive officers and Infinity and its directors and executive officers may be deemed to be participants in the solicitation of proxies from the stockholders of DPI in connection with the proposed merger of DPI with Infinity. Information regarding the special interests of these directors and executive officers in the merger transaction is included in the proxy statement/prospectus referred to above. Additional information regarding the directors and executive officers of DPI is also included in DPI s proxy statement for its 2006 Annual Meeting of Stockholders, which was filed with the SEC on April 6, 2006. This document is available free of charge at the SEC s web site (www.sec.gov) and from Investor Relations at DPI at the address described above.

Infinity gave the following presentation on September 8, 2006.

Introduction to Infinity September 8, 2006

Forward-Looking Statements

This presentation contains forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995 that involve risks and uncertainties that could cause actual results to be materially different from historical results or from any future results expressed or implied by such forward-looking statements. You are urged to consider statements that include the words may,

will, would, could. should. believes. estimates. projects, potential, expects, plans, anticipates, intends, continues. forecast. designed, goal,

or the negative of those words or other comparable words to be uncertain and forward-

looking. Such forward-looking statements include statements regarding the expected benefits of the merger of Infinity and DPI for stockholders of the combined company, the expectation that the merger will enable the combined company to be well positioned to drive forward its pipeline of anti-cancer agents and create substantial value for patients and stockholders, and the expectation that the combined company will have cash to support its current operating plan through at least December 31, 2009. Such statements are subject to numerous factors, risks and uncertainties that may cause actual events or results to differ materially from the combined company's current expectations. For example, there can be no guarantee that any product candidate the combined company is developing will successfully complete necessary preclinical and clinical development phases, be approved for sale in any market or that, if approved,

revenues from sales of such product will reach

any specific level. In particular, management's expectations could be affected by risks and uncertainties relating to: results of clinical trials and preclinical studies, including subsequent analysis of existing data and new data received from ongoing and future studies; the combined company's

dependence on its collaborations with

MedImmune

and Novartis; the combined company's ability to obtain additional funding required to conduct its research, development and commercialization activities; unplanned cash requirements and expenditures; and the company's ability to obtain, maintain and enforce patent and

other intellectual property protection for any

products it is developing. These and other risks which may impact management's expectations are described in greater detail under the caption "Risk Factors" in DPI's

registration statement on Form S-4, as amended, as filed with the Securities and Exchange Commission and DPI s other SEC reports.

Any forward-looking statements contained in this presentation speak only as of the date hereof and Infinity expressly disclaims any obligation to update any forward-looking statements, whether as a result of new information, future events or otherwise.

Mission

To develop targeted therapies for the treatment of cancer and related conditions discovered through the use of our innovative small molecule drug technologies Lead product candidate: IPI-504, a novel Hsp90 inhibitor

Two ongoing Phase I cancer studies in GIST and multiple myeloma

Phase II expected 2007

Pipeline of preclinical cancer drug candidates

Internally discovered and developed, chemistry platform

5 Pharma/Biotech corporate alliances

MedImmune, Novartis (2), Amgen, and J & J

Proven biotech leadership team

Significant cash position after MEDI alliance and DPI merger

Funds sufficient for projected operating expenses through end of 2009

Infinity Snapshot

Strategy
Drugs
Internally discovered, novel small molecules
Targets
Well-credentialed, but not well-trodden
Products
Opportunity for first-in class or fast follower best-in-class

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Founded in late 2001 (~5 years old)

Team

Recognized biotechnology investor, business and R&D leaders

~115 employees (~55 PhD / MDs)

Alliance and Financing Strategy

Hsp90 and Hedgehog pathway product alliance with MedImmune

Bcl

family product alliance with Novartis

Small molecule technology access alliances with Amgen, J&J and Novartis

Public financing via Reverse Merger with Discovery Partners

IPI-504

lead proprietary oncology drug candidate (Hsp90)

Phase I in GIST and multiple myeloma commenced 2005

Phase II anticipated in 2007

Hedgehog pathway preclinical oncology candidate

Our Team: ~115 full-time employees

Infinity headcount

Biology/Clinical/Regulatory

36

Chemistry

50

Management & other

12

(~55 MD or PhDs)

R&D Total

98

Total

115

G&A

17

Well-balanced

Moderate near-term growth

anticipated

Primarily in downstream disciplines (i.e. clinical, regulatory, CMC/ADME/tox)

Leadership

Mr. Steven Holtzman, CEO

Millennium, DNX

Dr. Julian Adams, President & CSO

Millennium, ProScript

Boehringer

Ingelheim, Merck

Ms. Adelene Perkins, CBO

Transform, Genetics Institute,

Bain, GE

Dr. David Grayzel, VP Clinical

Development & Medical Affairs

Dyax, Mass General Hospital

Dr. Vito Palombella, VP Discovery Biology

Syntonix, Millennium, ProScript

Dr. Jeffrey Tong, VP Corp & Prod Dev

McKinsey & Co, Harvard Center for

Genomics Research

Dr. Jim Wright, VP Pharm

Dev

Millennium, Alkermes, Boehringer

Ingelheim, Syntex, U. of Wisconsin

SAB

Oncology & Chemistry

Co-chair: Stuart Schreiber, PhD -Co-Director Broad Institute, Prof. of Chemistry and Chemical Biology Harvard University

Co-chair: Rick Klausner, MD

Column Group, former Head of the NCI

Arnie

Levine, PhD -

Institute for Advanced Study

Eric Lander, PhD -

Co-Director Broad Institute, Whitehead, MIT, Harvard

Todd Golub, MD -

DFCI, Broad Institute, Harvard, MIT

David Livingston, MD

Professor of Medicine, Harvard Medical School, DFCI

Ken Anderson, MD -

Robert Kraft Prof. of Medicine Harvard Medical School, DFCI

Matthew Shair, PhD

Professor of Chemistry, Harvard University

Vicki Sato, PhD

former President Vertex Pharmaceuticals

Phil Needleman, PhD -

former Head of R&D Searle, Pharmacia

Venrock Associates
Advent Venture Partners
HBM BioVentures
Vulcan Ventures
Novartis BioVentures
Wellcome Trust
POSCO BioVentures
Tallwood
Alexandria Equities
Lotus BioScience Pharmaceutical Companies
Amgen
Novartis
J&J

Investors

Venture Capitalists

Prospect Venture Partners

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PT 71 OTT
rview

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DOS Small Molecule Technology: Discovery and Alliance Engine

Innovative small molecule platform, diversity oriented synthesis (DOS), enables the creation of novel, natural product-like synthetic drug candidates

Potential to access previously undruggable drug

targets

Unique asset for:

Internal drug discovery

Value-accretive technology access alliances

Diversity Oriented Synthesis (DOS)

2004

2006: > \$60 million upfront/committed cash

Additional milestone and royalty potential

No license of proprietary Infinity product rights Small Molecule Technology Access Alliances

Total payments >\$400M Early product pipeline: Bcl family alliance with Novartis

Joint discovery of novel Bcl family (Bcl-2, Bcl-xL) targeted cancer drugs

Infinity participation in clinical development (at NVS expense) COLLABORATION

Infinity participation in US sales effort (at NVS expense) \$30M

Upfront & committed funds FINANCIALS

Royalties on WW sales

Clinical and commercial milestones

Lead products: Hsp90 and Hedgehog alliance with MedImmune

Infinity leads early translational development through proof of concept

MedImmune leads later clinical development, worldwide registration and sales and marketing, with Infinity participation

COLLABORATION

Infinity has right to provide up to 35% of US promotional activity (cost shared by alliance) \$70M

Upfront funds FINANCIALS

50% R&D cost sharing \$430M

50% worldwide profit split

Discovery Preclinical Start Clinical Trials Hsp90 (IPI-504) Bcl-2/Bcl-xL 2005 2007/2008 50% WW profit share with MEDI 50% WW profit share with MEDI Royalty from Novartis Non-exclusive

Amgen

Novartis

J&J Small molecule drug technologies Alliance and financing strategy: value retention Hedgehog Pathway (IPI-609) 2007 Reverse Merger
with
Discovery Partners International, Inc.
(NASDAQ: DPII)
*
*
*
*

DPI reverse merger opportunity

Discovery Partners International

Publicly traded company on NASDAQ (DPII)

Cash position 1/1/06: > \$83M

Board mandate (Q1, 2006):

Shut down existing business

Seek alternative, high-value biotech investment opportunity

DPI undertakes extensive evaluation of merger candidates

DPI selects Infinity as preferred partner

A financing event only

NO
programs,
employees,
partnerships,
or
obligations of DPI transferred to Infinity

DPI invests cash and divests operating units

7/7/06: Sale of all DPI operating assets to Galapagos

If DPI cash between \$70M and \$75M, ownership:

DPII stockholders = 31%

Infinity stockholders = 69%

If cash above \$75M or below \$70M, adjustment applied

4:1 reverse stock split approved by DPI board to lower share number and bring share price >\$10

The reverse merger: a creative financing and access to public markets

Lead clinical product in two ongoing Phase I cancer studies

Phase II expected 2007

Pipeline of preclinical cancer drug candidates

Internally discovered and developed, chemistry platform

5 Pharma/Biotech corporate alliances

MedImmune, Novartis (2), Amgen, and J & J

Proven biotech leadership team

Significant cash position

Projected cash runway through end of 2009

Enough cash to reach key value-driving events before any additional alliances or financing
Snapshot of Post-Merger Infinity (NASDAQ: INFI)

Status of Reverse Merger
Announce merger
File Initial S4
S-4 is Declared Effective
S-4 mailed to DPI and IPI Stockholders
Stockholder meeting/vote scheduled
Deal Closes, INFI publicly traded
April 12, 2006
July 11, 2006
August 7, 2006
August 9-10, 2006
September 12, 2006
Following successful vote

Overview

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Phase I in GIST and multiple myeloma commenced 2005

Phase II anticipated in 2007

Hedgehog pathway preclinical oncology candidate

Novel Hsp90 inhibitor

Currently in 2 phase I clinical trials:

GIST

Multiple myeloma

Ready for Phase II in 2007

Both IV (water-soluble) and oral

formulations

Cl

Infinity s lead clinical product: IPI-504 (Hsp90 inhibitor)

IPI-504

OH

N

Η

N OH

O

ОН Me

O

O

O O

NH

2

Н

Н +

Heat Shock Protein 90 (Hsp90) is an emerging cancer target
Hsp90 in cancer cells differs from
Hsp90 in normal cells
Function of Hsp90 in cancer cells

General chaperone function

essential for protein homeostasis

Specific chaperone function

stabilization of oncogenic proteins in key cell signaling pathways

Preferential targeting to cancer

Dependence

on Hsp90

Apoptosis

Tyrosine kinase

inhibitor

(e.g

Gleevec, Tarceva)

Oncogene

Cancer cell

survival &

proliferation

Resistance

mutations

Hsp90

inhibitor

Targeting specific oncogenic Hsp90 client proteins

Hsp90

inhibitor

Velcade

Gleevec / dasatinib

Investigational

Gleevec / Sutent

Herceptin

Tarceva

/ Erbitux

Sorafenib

/ Sutent

Sorafenib

Investigational

Targeted therapy

The emerging world of targeted cancer therapies

Indication

Myeloma

CML

AML

GIST

Breast (HER2+)
NSCLC
Renal cell
Melanoma
Prostate (PTEN -/-)
NFB
Bcr-Abl
Flt3
c-Kit
HER2
EGFR
VEGFR / HIF-1a
b-Raf

Molecular Target

p-Akt

The emerging world of targeted cancer therapies

NF-

В

Bcr-Abl

Flt3

c-Kit

HER2

EGFR

VEGFR / HIF-1a

b-Raf

p-Akt

Molecular Target

All are clients of Hsp90

Inhibiting Hsp90 affects the stability of these targets

Attractive alternative to chasing tumor-specific resistance mutations

History of Geldanamycin analogs

17-AAG is a semi-synthetic natural product, derived from Geldanamycin

17-AAG activity:

Potent & selective inhibitor of Hsp90

Well-tolerated in humans (>400 patients tested in multiple Phase I trials)

Removed chemical reactivity of

Problems:
Highly insoluble
Sub-optimal DMSO-and Cremophor based formulations
Off-patent O N H H H N O O Me O O OH Me O O O Me O O N H Me O O O O *Reference: Kamal et al, Nature, 2003, 425, 407-410

geldanamycin

Novel chemical entity

Patient-friendly formulations

IV in two Phase 1 trials

Oral under development

Broad therapeutic potential

Large therapeutic window consistent with targeted therapies

Activity in resistant settings

Strong intellectual property position

Ready for Phase 2 in 2007

Cl

Infinity s lead clinical product: IPI-504 (HSP90 inhibitor) IPI-504 ОН N Н N ОН O OHMe O O \mathbf{O} O NH 2

H H +

IPI-504

IPI-504 competitive landscape for IV formulation

POTENCY

NCE

PATENT?

DELIVERY

CHEMICAL

PROPERTIES

MTD

COMPOUND

COMPANY

17-DMAG

KOS-1022

~25-50 nM Yes IV 60 120 min Chemically reactive alkylating agent <24 mg/m² Kosan 17-AAG KOS-953 ~25-50 nM No IV 60-120 min in Cremophor Special tubing Steroid pretreatment **Emulsion** changes distribution and PK Dose escalation ongoing; 340 mg/m² Kosan **Emulsion** changes distribution and PK 17-AAG CNF-1010 ~25-50 nM No IV 60 min in lipid emulsion 175 mg/m² Biogen/ Conforma Emulsion changes distribution and PK 17-AAG

~25-50 nM

IV 60 min in

No

DMSO/Egg

220 mg/m²

Kosan

IPI-504

~25-50 nM

IV 30 min

Diffusion

controlled

distribution

Dose escalation

ongoing at

400 mg/m²

Yes

Infinity

IPI-504 competitive landscape for PO formulations

IPI-504 (same

molecule as IV)

17-DMAG

CNF-2024

Small Molecule

Small Molecule

Small Molecule

Compound

Company

Phase of Development

Infinity

Kosan

Biogen

Idec

Serenex

Novartis /
Vernalis
Synta
Pre-clinical
Phase I
Phase I
Preclinical
Preclinical
Preclinical
No competitive oral product is significantly more advanced
Novel small
molecules not
derived from
geldanamycin

Intellectual property protection for IPI-504

Composition of matter

Formulations (IV and PO)

Methods of making

Methods of using

Infinity has broad patent applications pending for IPI-504

IPI-504 Preclinical Data

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Highly

responsive to

Hsp90 inhibition

T315I

T790M

T670I

Preclinical evidence of potential as salvage therapy

BCR-ABL

EGFR

KIT

Hsp90 Client

Disease

Drug

CML

NSCLC

GIST

Gleevec,

Dasatinib

Tarceva,

Iressa

Gleevec,

Sutent Kinase Inhibitor Resistance Mutation

CML / Bcr-Abl

Wild-type protein

Bcr

Abl

Non-cancer related

Protein status

Entity

Function

Hsp90-

dependent

Gain-of-function

mutant

Bcr-Abl

fusion

Constitutively

activated signaling

Drug-resistant

mutant

Bcr-Abl

(T315I)

TKI-resistant kinase

Gleevec-refractory primary CML cells sensitive to IPI-504 0 10 20 30 40 50 60 70 Pt 1 Pt 2 (T315I) Pt 3 Control 0.5 uM IPI-504 2.0 uM IPI-504 Collaboration:

Kapil Bhalla, Moffitt Cancer Center

Placebo

Gleevec

IPI-504

Collaboration:

Shauguang

Li, Jackson Labs

0.0%

20.0%

40.0%

60.0%

80.0%

100.0%

15

17

19

21

23

25

27

29

31

33

Days

Oral IPI-504: survival benefit in Gleevec-resistant T315I

CML transplantation model

Placebo Gleevec

IPI-504

0.0%

20.0%

40.0%

60.0%

80.0%

100.0%

15

17

19

21

23

25

27

29

31 33

Days

Oral IPI-504: survival benefit in Gleevec-resistant T315I

CML transplantation model

Collaboration:

Shauguang

Li, Jackson Labs

Placebo

Gleevec

IPI-504

0.0%

20.0%

40.0%

60.0%

80.0%

100.0%

15

17

19

21

23 25

27

29

31 33

Days

Oral IPI-504: survival benefit in Gleevec-resistant T315I

CML transplantation model

Collaboration:

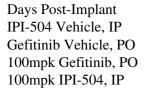
Shauguang

Li, Jackson Labs

NSCLC / EGFR Wild-type protein **EGFR** Ligand-dependent RTK Protein status Entity Function Hsp90dependent Gain-of-function mutant **EGFR** (exon19 or L858R) Ligandhypersensitive RTK Drug-resistant

mutant

```
EGFR (
exon19 or
L858R + T790M)
TKI-resistant,
ligand
hypersensitive RTK
```



100mpk

IPI-504

2X

weekly

IP;

100mpk

Gefitinib

daily

PO

for

3

weeks

21%

difference

in

tumor

volumes

between

vehicle

and

Gefitinib

treated

groups

(p=0.54)

69% difference in tumor volumes between vehicle and IPI-504 treated groups (p=0.009) 69%

Non small cell lung cancer xenograft with T790M EGFR

Tarceva/Iressa-resistance mutation

GIST / Kit

Wild-type protein

Kit

Ligand-dependent

RTK

Protein status

Entity

Function

Hsp90-

dependent

Gain-of-function

mutant

c-Kit

Ligand-independent

RTK

Drug-resistant

mutant

c-Kit (T670I)

TKI-resistant,

ligand-independent

RTK

```
GIST: Gleevec-resistant cells more sensitive to IPI-504
GIST 882*
Gleevec-Sensitive
(primary: exon
13, K642E)
10
100
1000
10
20
30
40
50
10000
60
70
Compounds concentrations (nM)
10
```

```
10
20
30
40
50
10000
10000
60
70
Compounds concentrations (nM)
IPI-504 : EC50 = 121 +/-
21 nM
IM:
        EC50 = 147 + / -
42 nM
Gleevec-
Resistant
(primary: exon
11, V560D +
Gleevec resistance: exon
17, D820A)
10
100
1000
5
15
25
35
45
55
65
75
85
Compounds concentrations (nM)
IPI-504
Imatinib
GIST 48*
IPI-504 : EC50 = 54 +/-
7 nM
IM: 25% inhibition @ 10uM
Collaboration:
```

Fletcher, Demetri, DFCI

IPI-504 Clinical Development Strategy

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Development and registration of IPI-504 in hematologic malignancies and solid tumors

Preclinical support for broad role of Hsp90

Early human proof-of-concept with most rapid path to registration

Strong scientific rationale

Trials targeted to homogenous patient population (disease-focused)

Surrogate marker

Rapid patient accrual

Single-agent activity in refractory setting (potential for expedited approval)

In parallel, initiate broader development for larger indications (additional diseases, combination therapy, front-line therapy) IPI-504 Clinical Development Strategy

Principal Investigator:

Dr. George Demetri, DFCI Objectives:

Safety, PK, dose-ranging

Establish Phase II dose Surrogate marker of response:

PET scans Solid Tumor Gastrointestinal Stromal Tumors (Gleevec-resistant)

Schedule / status:

Days 1, 4, 8, 11 of 21 day

Continuing dose escalation Current ongoing phase I clinical trials Principal Investigator:

Dr. Paul Richardson, DFCI

Dr. Sundar Jagannath, SVCCC

Dr. David Siegel, HUMED Objectives:

Safety, PK, dose-ranging

Establish Phase II dose Surrogate marker of response:

M protein levels Hematologic Multiple Myeloma (relapsed, refractory) Schedule / status:

Days 1, 4, 8, 11 of 21 day

Continuing dose escalation

Phase I dose escalation for IPI-504 (GIST)

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1 \text{ cycle} = 21 \text{ days}
```

```
4 doses (days 1, 4, 8, 11 followed by 10 days off)
Phase I schedule
```

25%

500

6

33%

400

5

33%

300

4

50%

225
3
66%
150
2
100%
90
1
Escalation over previous dose
Dose (mg/m2)
Group

Near-term sequence of additional clinical indications

(2006/2007)

Resistance

Mutation

Disease

ΡI

T. Lynch

T. Kipp, CLL

consortium

Matsui, Smith /

Bhalla

NSCLC

CLL

CML

Tarceva-R

(T790M)

Zap-70

T315I

Focused trials would determine IPI-504 activity in patients with known resistance to targeted therapy

If positive, trials provide opportunity to rapidly advance to market

Additional indications to follow Site MGH UCSD JHU, Moffitt Overview

Founded in late 2001 (~5 years old)

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lead proprietary oncology drug candidate (Hsp90)

Phase I in GIST and multiple myeloma commenced 2005

Phase II anticipated in 2007

Hedgehog pathway preclinical oncology candidate

Potential for first-in-class systemic hedgehog inhibitor

Proprietary NCE s

Systemic (sub-cu and oral) products

Lead molecule (IPI-609) in advanced preclinical development

First in man expected in 2007

Broad anti-cancer potential

Strong data supporting pancreatic, metastatic prostate, SCLC, others

Single agent activity

Potential for synergy with standards of care Infinity s Hedgehog program

History of cyclopamine chemical discovery 1950 s

Lambs born in Idaho with cyclopic features (defect in development of left-right asymmetry)

USDA determines that pregnant ewes grazed on the plant *Veratrum* californicum

Cyclopamine identified as the teratogenic substance in *V*. californicum

Purified cyclopamine given to animals recapitulates cyclopic features and other birth defects V. *californicum* cyclopamine

History of hedgehog genetics 40 years later (1980 s to today)

Genes are discovered that control embryonic development and pattern formation

One such gene is called hedgehog

Hedgehog mutations in the Drosophila fruit fly result in cyclopia

Hedgehog function in humans related to development of the pancreas, gut,

and other elements of GI tract

Cyclopamine chemistry meets hedgehog genetics
Chemistry
The chemical cyclopamine
results in cyclopic animals
Genetics
Mutation of hedgehog pathway
results in cyclopic animals
Might the chemical cyclopamine interact
with genes in the hedgehog pathway?
YES

Cyclopamine is a smoothened antagonist *Chen et al., 2002 **G&D** 16:2743
Cyclopamine
Normal
Cancer

```
Cancers have hijacked components of the hedgehog pathway

#
ON = active repressor of Smo

* Mutation in Patched
1
Hahn et al., 1996, Cell
85: 841
2
Bale & Yu, 2001, Human Molec. Genetic. 10: 757 (review)
3
Berman et al., 2002 Science
297: 1559
4
Berman et al., 2003 Nature
425: 846
5
Kayed et al., 2004 Int. J. Cancer
```

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110: 668
Thayer et al., 2003 Nature
425: 851
Karhadkar et al., 2004 Nature, 431: 707
Fan et al., 2004 Endocrinology
145: 3961
Watkins et al., 2003, Nature
422: 313
10
Sicklick 2005 ASCO; Mohini, 2005 AACR
Kubo et al., 2004 Cancer Res. 64
:6071
State
Normal
Basal cell carcinoma*
1,2
Medulloblastoma*3
Pancreatic cancer
4,5,6
Prostate cancer
7,8
Small cell lung cancer
Hepatocellular cancer
10
Breast Cancer
11
Smoothened
OFF
ON
ON
ON
ON
ON
ON
ON
Patched
ON
Mutant -
OFF
Mutant -
OFF
```

OFF OFF

OFF

OFF

OFF

Hedgehog

OFF

OFF

OFF

Turned ON

Turned ON

Turned ON

Turned ON

Turned ON

Frequency

95%

30-40%

100%

100%

50%

n/a

100%

Cyclopamine validates Hedgehog as a cancer target

Cyclopamine is a plant natural product produced by *Veratrum* californicum
Cyclopamine activity:

Potent inhibitor of Smoothened

Highly active in pancreatic, prostate, small cell lung cancer animal models Drawbacks:

Insoluble

Caustic formulations

Off-patent

НО

O

HN

Η

Н

Н

Н

Н

Infinity s lead Hedgehog pathway inhibitors
Novel candidates based on cyclopamine
On mechanism
Superior to cyclopamine:
More chemically stable
More potent
More soluble
Most advanced candidate (IPI-609) in late-preclinical development
First in man 2007
i.v., s.c., or oral formulations
Better oral bioavailability
Better tumor PK

IPI-609 competitive landscape

CUR-61414

Curis and Genentech Hedgehog antagonist

Highly insoluble: not suitable for systemic administration

Topical formulation failed in Phase 1 Basal Cell Carcinoma trial; failure attributed to formulation, not pathway

Curis and Genentech have expressed continued interest in the Hedgehog pathway for systemic agents

Intellectual property protection for IPI-609

Novel scaffold for IPI-609 and analogs with patent applications pending

We believe there are no patents preventing us from marketing IPI-609 or its analogs

Days
Vehicle
IPI-609 10 mpk/day
IPI-609 efficacious in PC-3 prostate xenograft

```
IPI-609 slows tumor growth rates
0
200
400
600
800
1000
1200
30
35
40
45
50
55
60
Day
Linear Fit
```

Bivariate Fit of P 10 By Day

Day

Linear Fit

Bivariate Fit of VP 6 By Day

Median vehicle-treated

animals

Median IPI-609 treated

animals

Clinical development strategy of hedgehog pathway inhibitors

Strong scientific rationale supports targeting of cancers dependent on the Hedgehog pathway

Pancreatic

Small cell lung

Metastatic prostate

Metastatic breast

Ovarian

Others (medulloblastoma, glioma, basal cell carcinoma, etc.)

Identify a rapid path to registration

Potential for sole agent activity or

Combination with a single Standard of Care

Key Principal Investigator relationships established

Pancreatic cancer Manuel Hidalgo, MD Johns Hopkins (PCRT Dan Van Hoff, MD)

Small cell lung cancer Charles Rudin, MD Johns Hopkins

Prostate cancer Phil Kantoff, MD DFCI Howard Scher, MD MSKCC Chris Logothetis, MD MD Anderson Prostate Consortium

Breast Max Wicha, MD U of Michigan

Heme malignancies Doug Smith, MD Johns Hopkins

Bill Matsui, MD Johns Hopkins Kapil Bhalla, MD Moffitt Cancer Ctr

Infinity Pharmaceuticals

Summary

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Product Pipeline

IPI-504: Complete Phase I trials

Publish First Clinical Data

IPI-504: Expect to initiate Phase II in 2007

Hedgehog Pathway: Expect to initiate

Phase I in 2007

Successful alliance execution

At least one new corporate alliance

Financing event

Year-end cash runway:

12-24 months

2006/Early 2007 Goals, Achievements and Anticipated News Flow

Pending

DPII merger

AMGN

extension

Expected

at EORTC

11/7/06

NVS (Bcl)

MEDI (Hsp90, HH)