

## **Agios Pharmaceuticals**

### **COMPANY AND PIPELINE OVERVIEW REPORT**

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

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[Return to Table of Contents](#)



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[Return to Table of Contents](#)



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i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.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

[Return to Table of Contents](#)



TABLE OF CONTENTS

Company Overview.....	5
Company Profile.....	6
Product Portfolio Summary.....	6
Product Portfolio Drugs.....	9

[Return to Table of Contents](#)

# Agios Pharmaceuticals

## COMPANY OVERVIEW

Company Name	Agios Pharmaceuticals
Parent Company Name	Agios Pharmaceuticals
Website	http://www.agios.com/
Country	US
Number of Drugs in Active Development	3
Number of Inactive Drugs	0
Number of Patents as Owner	17
Number of Patents as Third Party	0
Number of Deals	7
Key Indications	Cancer, Hemolytic anemia, Sickle cell anemia, Acute myelogenous leukemia, Colon tumor, Prostate tumor, Acute lymphoblastic leukemia, Anemia, Brain tumor, Breast tumor, Fibrosarcoma, Glioblastoma, Lung tumor, Neoplasm, Pancreas tumor
Key Target-based Actions	Isocitrate dehydrogenase inhibitor, Pyruvate kinase muscle isozyme inhibitor, Pyruvate kinase muscle isozyme stimulator, Cytoplasmic isocitrate dehydrogenase inhibitor, IDH1 gene inhibitor, Pyruvate kinase stimulator, Pyruvate kinase 2 modulator, AMP activated protein kinase stimulator, Cytoplasmic isocitrate dehydrogenase modulator, EGFR gene modulator, IDH1 gene modulator, IDH2 gene inhibitor, IDH2 gene modulator, KRAS gene modulator, Mitochondrial isocitrate dehydrogenase modulator, Pyruvate kinase 2 stimulator, Pyruvate kinase muscle isozyme
Key Technologies	Small molecule therapeutic, Drug screening, Enzyme, Analytical method, Animal model, Chromatography analytical, DNA sequencing technology, Diagnostic method, Fluorescence, Immunodetection, Luminescence, Spectrometry

## COMPANY PROFILE

### SUMMARY

Agios Pharmaceuticals, founded as part of a seed financing by ARCH Venture Partners and Flagship Ventures, is a biopharmaceutical company focused on the development of therapeutics which target key metabolic pathways in order to disrupt the growth and survival of cancer cells.

### COMPANY LOCATION

In November 2008, Agios opened a 21,000 sq ft state-of-the-art laboratory dedicated to cancer metabolism research in Cambridge, MA.

### LICENSING AGREEMENTS

In December 2009, ABC2 (Accelerate Brain Cancer Cure) provided funding to Agios Pharmaceuticals for the development of IDH1 therapeutics and diagnostics in brain cancer (glioma). Agios received undisclosed funding.

### FINANCIAL

In November 2011, Agios raised \$78 million from an oversubscribed series C financing.

In July 2008, Agios raised \$33 million from a series A financing round. Proceeds would be used to advance development of the company's pipeline.

[Return to Table of Contents](#)

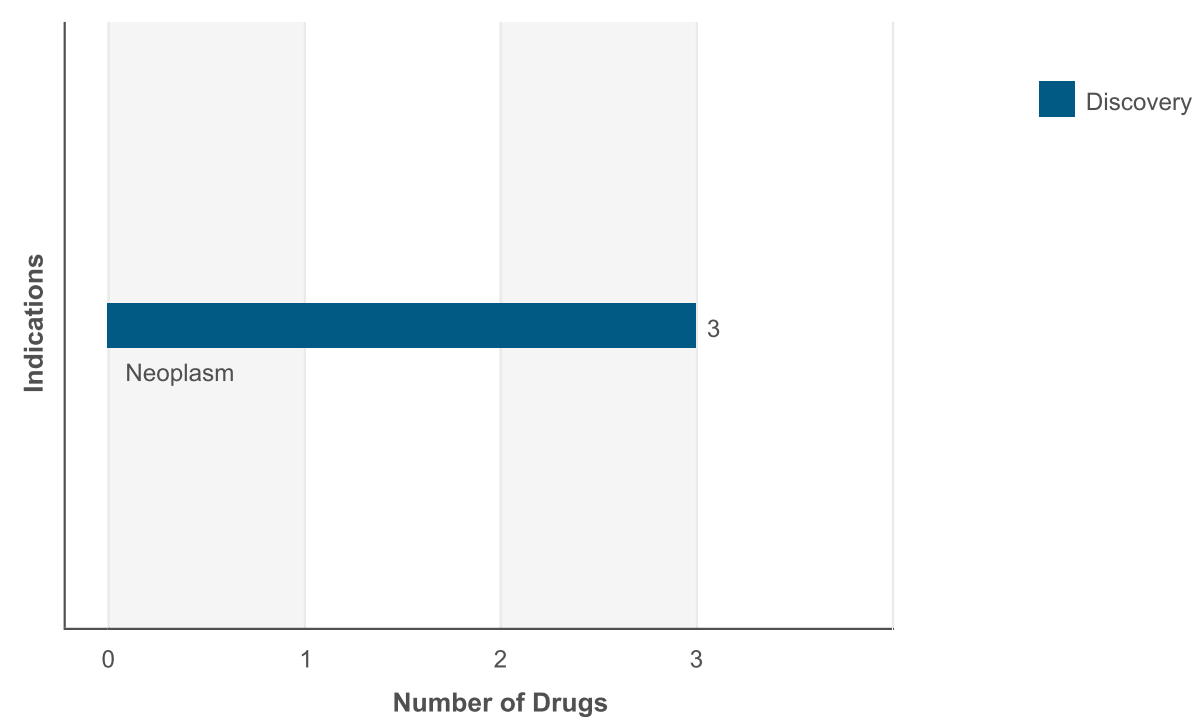


PRODUCT PORTFOLIO SUMMARY

DRUGS

Drugs by Indication

Active Drugs by Indication Chart



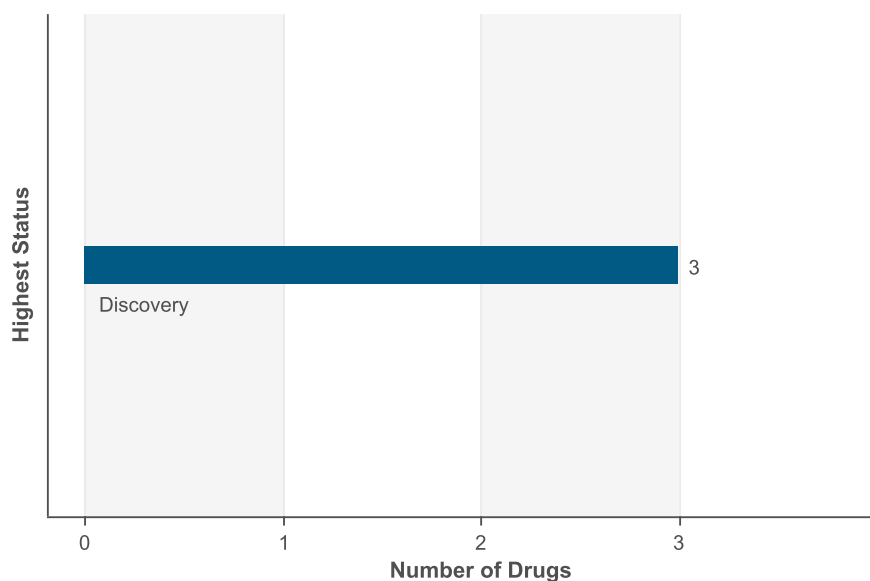
Drugs by Indication Table

Indication	Active	Inactive	Total
Neoplasm	3	0	3

[Return to Table of Contents](#)

## Drugs by Highest Status

Active Drugs by Highest Status Chart



Drugs by Highest Status Table

Development Status	Number of Drugs
Discovery	3

## DEALS

Deal Type	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Patent - Exclusive Rights	0	0	1	0	1
Drug - Funding	2	0	0	0	2
Drug - Early Research/Development	0	0	1	0	1
Drug - Development/Commercialization License	1	0	1	0	2
Drug - Development Services	0	0	1	0	1

## PATENTS \*

Indication	As Owner	As Third Party	Total
Neoplasm	14	0	14
Neurological disease	1	0	1

[Return to Table of Contents](#)

Andrology	2	0	2
Endocrine disease	1	0	1
Genitourinary disease	2	0	2
Dermatological disease	1	0	1
Gastrointestinal disease	2	0	2
Hematological disease	2	0	2
Musculoskeletal disease	1	0	1
Respiratory disease	1	0	1
Gynecology and obstetrics	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.

[Return to Table of Contents](#)



## PRODUCT PORTFOLIO DRUGS

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

### PKM2 inhibitors (cancer), Agios/Celgene

<b>Drug Name</b>	PKM2 inhibitors (cancer), Agios/Celgene
<b>Key Synonyms</b>	
<b>Originator Company</b>	Agios Pharmaceuticals
<b>Active Companies</b>	Celgene Corp, Agios Pharmaceuticals
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Cancer
<b>Target-based Actions</b>	Pyruvate kinase muscle isozyme inhibitor
<b>Other Actions</b>	Anticancer, Glycolysis pathway modulator
<b>Technologies</b>	Small molecule therapeutic
<b>Last Change Date</b>	21-Sep-2012

### anti-mutant-EGFR antibodies (cancer), Aveo/Agios

<b>Drug Name</b>	anti-mutant-EGFR antibodies (cancer), Aveo/Agios
<b>Key Synonyms</b>	
<b>Originator Company</b>	AVEO Oncology
<b>Active Companies</b>	AVEO Oncology, Agios Pharmaceuticals
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Cancer
<b>Target-based Actions</b>	Epidermal growth factor antagonist
<b>Other Actions</b>	Anticancer monoclonal antibody, Anticancer protein kinase inhibitor
<b>Technologies</b>	Monoclonal antibody, Small molecule therapeutic
<b>Last Change Date</b>	09-Jun-2011

[Return to Table of Contents](#)



## IDH-1/IDH-2 inhibitors (cancer), Agios/Celgene

<b>Drug Name</b>	IDH-1/IDH-2 inhibitors (cancer), Agios/Celgene
<b>Key Synonyms</b>	
<b>Originator Company</b>	Agios Pharmaceuticals
<b>Active Companies</b>	Celgene Corp, Agios Pharmaceuticals
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Cancer
<b>Target-based Actions</b>	Isocitrate dehydrogenase inhibitor
<b>Other Actions</b>	Anticancer
<b>Technologies</b>	Small molecule therapeutic
<b>Last Change Date</b>	12-Oct-2012

[Return to Table of Contents](#)

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[Return to Table of Contents](#)

