

### **US** Biopharmaceuticals

# Wednesday conference takeaways: AGIO, LQDA

**Industry Overview** 

### Pivotal progress set to continue for Agios in 2024

After the recent positive data update from the pivotal ENERGIZE trial (see report), Agios gave an encouraging overview of 2024 plans as the company gets closer to expanding the Pyrukynd label into larger indications including thalassemia and sickle cell disease. With the Pyrukynd launch continuing steadily, we model \$46M in PKD sales for 2024 and look for continued updates surrounding the launch. As a larger indication with a strong diagnosis rate, we think Agios is positioned well to launch Pyrukynd in thalassemia if approved in the US and other geographies. With multiple pivotal readouts upcoming, we look for positive data updates from ENERGIZE-T (mid-24), ACTIVATE-kidsT (YE24), and the RISE-UP studies in 2025. The company also highlighted encouraging development plans for early stage programs including a PAH stabilizer in PKU which is planned for initial dosing in 1H24, and we look for derisking data to add to our model. Given the ongoing launch of Pyrukynd in PKD and the progress towards label expansion into larger indications, we maintain Buy and \$49 PO.

### Liquidia shows strong readiness for launch of Yutrepia

Liquidia provided a positive corporate overview with management focusing on the path towards full approval of Yutrepia in PAH and PH-ILD. As one of our top picks for 2024 (see report), we think Liquidia is well prepared for launching Yutrepia and with the positive outcome of the recent oral arguments (see report), continue to model an early 2024 launch. The company reviewed potential differentiation of Yutrepia to Tyvaso, highlighting the administration device and proprietary PRINT technology. While earlier in development, the company also discussed the encouraging therapeutic profile of L606 which could provide a treatment option with less frequent dosing. With \$126M total in recent raises, we think Liquidia is in a strong position for launch, and we focus on the full approval of Yutrepia along with the upcoming PDUFA for the approval of Yutrepia in PH-ILD (January 24, 2023). We continue to see a clear path for Yutrepia approval in PAH (see report) and maintain Buy, PO \$15.

See our updated catalyst calendar below (Exhibit 1):

### 12 January 2024

Equity United States Biopharmaceuticals

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PKU: phenylketonuria

PKD: pyruvate kinase deficiency

PAH: pulmonary arterial hypertension

PH-ILD: pulmonary hypertension and interstitial lung disease

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Refer to important disclosures on page 4 to 7. Analyst Certification on page 2. Price
Objective Basis/Risk on page 2.

### **Exhibit 1: Catalyst Calendar**

Agios plans to announce data from ENERGIZE-T in mid-24.

Company	Asset	Indication	Event	Timing	Importance
Agios	Mitapivat	SCD	Phase 3 data	2025	High
Agios	AG-946	LR-MDS	Initiate phase 2b	mid-2024	Low
Agios	Mitapivat	TDT	Phase 3 ENERGIZE-T data	a mid-2024	High
Agios	Mitapivat	Pediatric PKD	Data from ACTIVATEkids	-T YE24	High
Agios	PAH stabilizer	PKU	Initiate dosing	1H24	Low
Agios	Mitapivat	Thalassemia	File for regulatory approv	al YE24	High
Liquidia	Yutrepia	PAH	Anticipated launch	2024	High
Liquidia	Yutrepia	PH-ILD	PDUFA	24-Jan-24	High
Liquidia	L606	PH-ILD	Initiate PH-ILD trial	1H24	Low

Source: BofA Global Research, company reports

BofA GLOBAL RESEARCH

#### Stocks mentioned

BofA Ticker	Bloomberg ticker	Company name	Price	Rating
AGIO	AGIO US	Agios	US\$ 22.59	C-1-9
LQDA	LQDA US	Liquidia Corporation	US\$ 12.5	C-1-9

Source: BofA Global Research

### Price objective basis & risk

### Agios Pharmaceuticals (AGIO)

Our \$49/share price objective is based on a probability-adjusted (40-100%) net present value (NPV) analysis of 1 commercial program and 2 programs under development. We use a weighted-average cost of capital (WACC) of 13%, similar to other commercial companies in our coverage universe and a -25% terminal growth rate. Given these assumptions, we estimate a value of \$6/share for PKD, \$18/share for thalassemia, \$4/share for SCD, \$7/share for Pyrukynd ex-US royalties, and \$14/share for net cash.

Downside risks: 1) soft market uptake, 2) dangerous safety signals, 3) superior competitor data.

### Liquidia Corporation (LQDA)

Our \$15/share price objective is based on an net present value (NPV) analysis of Yutrepia (\$12/share), collaboration revenues (\$2/share), and net cash (\$1/share). We use a weighted average cost of capital (WACC) of 13%, in line with similar companies in our coverage universe and a -50% terminal growth rate.

Downside risks: 1) additional competition in the market, 2) delayed full approval of Yutrepia.

Upside risk: 1) higher-than-expected uptake of Yutrepia once approved

### Analyst Certification

I, Greg Harrison, CFA, hereby certify that the views expressed in this research report accurately reflect my personal views about the subject securities and issuers. I also certify that no part of my compensation was, is, or will be, directly or indirectly, related to the specific recommendations or view expressed in this research report.



### US - Biopharmaceuticals Coverage Cluster

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Edita Erasc Espe	tokinetics, Incorporated	CYTK	CYTK US	Jason Zemansky
Eraso Espe	litas Medicine	EDIT	EDIT US	Greg Harrison, CFA
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INDERPERFORM	izer cursion Pharmaceuticals, Inc. ra Biosciences			
AlloV	izer cursion Pharmaceuticals, Inc. ra Biosciences		ALVR US	Jason Zemansky



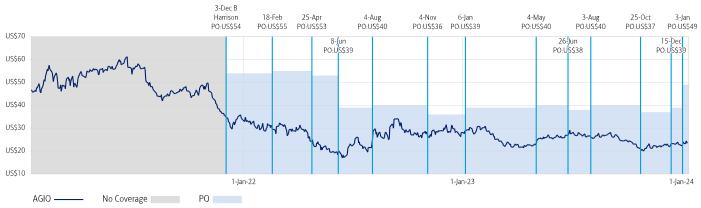
### **US - Biopharmaceuticals Coverage Cluster**

Investment rating	Company	Bof A Ticker	Bloomberg symbol	Analyst
	CureVac	CVAC	CVAC US	Geoff Meacham
	Day One Biopharmaceuticals	DAWN	DAWN US	Alec W. Stranahan
	LianBio	LIAN	LIAN US	Geoff Meacham
	Novavax	NVAX	NVAX US	Alec W. Stranahan
	Regeneron Pharmaceuticals Inc.	REGN	REGN US	Geoff Meacham
	Reneo Pharmaceuticals	RPHM	RPHM US	Jason Zemansky
	TG Therapeutics	TGTX	TGTX US	Alec W. Stranahan
	United Therapeutics Corporation	UTHR	UTHR US	Greg Harrison, CFA

### **Disclosures**

### **Important Disclosures**

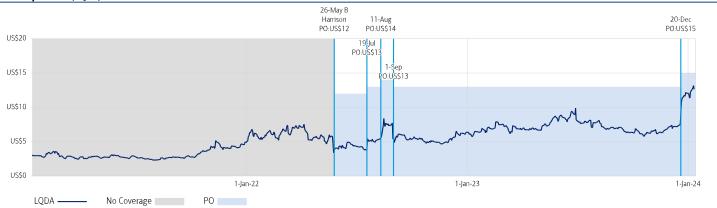
### Agios (AGIO) Price Chart



B: Buy, N: Neutral, U: Underperform, PO: Price Objective, NA: No longer valid, NR: No Rating

The Investment Opinion System is contained at the end of the report under the heading "Fundamental Equity Opinion Key". Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.

### Liquidia Corporation (LQDA) Price Chart



 $B: Buy, N: Neutral, U: Underperform, PO: Price Objective, NA: No \ longer \ valid, NR: No \ Rating$ 

The Investment Opinion System is contained at the end of the report under the heading "Fundamental Equity Opinion Key". Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.

#### Equity Investment Rating Distribution: Health Care Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships <sup>R1</sup>	Count	Percent
Buy	234	60.94%	Buy	115	49.15%
Hold	80	20.83%	Hold	36	45.00%
Sell	70	18.23%	Sell	29	41.43%

#### Equity Investment Rating Distribution: Global Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships <sup>R1</sup>	Count	Percent
Buy	1895	53.62%	Buy	1083	57.15%
Hold	832	23.54%	Hold	454	54.57%
Sell	807	22.84%	Sell	383	47.46%

RI Issuers that were investment banking dients of BofA Securities or one of its affiliates within the past 12 months. For purposes of this Investment Rating Distribution, the coverage universe includes only stocks. A stock rated Neutral is included as a Hold. and a stock rated Underperform is included as a Sell.

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## Investment rating Total return expectation (within 12-month period of date of initial rating) Ratings dispersion guidelines for coverage cluster<sup>82</sup>

Buy	≥ 10%	≤ 70%
Neutral	≥ 0%	≤ 30%
Underperform	N/A	≥ 20%

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