

#### Pemigatinib (FGFR)

Near-term opportunities in multiple tumor types

## Speakers on Today's Webcast

• Hervé Hoppenot Chief Executive Officer Incyte

• Steven Stein, MD Chief Medical Officer Incyte

Incv



#### Forward-looking Statements

Except for the historical information set forth herein, the matters set forth in this presentation contain predictions, estimates and other forward-looking statements, including without limitation statements regarding: expectations regarding the timing of clinical trial results, and whether those results will demonstrate sufficient efficacy to continue development or seek or obtain regulatory approval, for ruxolitinib in GVHD, pemigatinib in cholangiocarcinoma, bladder cancer and solid tumors, itacitinib in GVHD, parsaclisib in lymphomas, INCMGA0012 in various cancers and ruxolitinib cream for vitiligo and atopic dermatitis; expectations regarding the timing of the filing of an NDA for pemigatinib in cholangiocarcinoma; expectations for our pemigatinib development program, including planned initiations of studies, expected time for enrollment, expected timing of results, whether any of these studies will achieve any or all of their endpoints, and whether and when any regulatory submissions for any of the potential indications will occur; and the potential commercial opportunities for pemigatinib.

These forward-looking statements are based on our current expectations and are subject to risks and uncertainties that may cause actual results to differ materially, including unanticipated developments in and risks related to: unanticipated delays; further research and development and the results of clinical trials possibly being unsuccessful or insufficient to meet applicable regulatory standards or warrant continued development; the ability to enroll sufficient numbers of subjects in clinical trials; determinations made by the FDA or other regulatory authorities around the world; the efficacy or safety of our products and the products of our collaboration partners; the acceptance of our products and the products of our collaboration partners in the marketplace; market competition; sales, marketing, manufacturing and distribution requirements; unanticipated variations in demand for products; greater than expected expenses; expenses relating to litigation or strategic activities; government activities, including potential new laws and regulations, affecting the healthcare market generally and the pharmaceutical and biotech industries specifically; and other risks detailed from time to time in our reports filed with the U.S. Securities and Exchange Commission, including our quarterly report on Form 10-Q for the quarter ended June 30, 2019. We disclaim any intent or obligation to update these forward-looking statements.

### Incyte has Six Late-Stage Development Programs



1. Development of ruxolitinib in GVHD in collaboration with Novartis.

All epidemiology data for US, Europe and Japan except where noted for US only; all incidence data for unresectable or metastatic disease, except prevalence data for ruxolitinib cream. References upon request.

## Pemigatinib Represents an Important Near-Term Opportunity



All epidemiology data for US, Europe and Japan except where noted for US only; all incidence data for unresectable or metastatic disease, except prevalence data for ruxolitinib cream. References upon request.

#### Pemigatinib is a Selective, Potent, Oral Inhibitor of FGFR1, 2, and 3

	Pemigatinib <sup>1</sup> (INCB54828)	<b>Erdafitinib<sup>2</sup></b> (JNJ-42756493)	<b>Rogaratinib<sup>3,4</sup></b> (BAY1163877)	<b>Infigratinib<sup>5,6</sup></b> (BGJ398)	<b>Derazantinib<sup>7,8</sup></b> (ARQ087)	<b>Futibatinib<sup>9,10</sup></b> (TAS-120)	
FGFR1 IC <sub>50</sub> (nM)	0.4	1.2	15	0.9	4.5	3.9	
FGFR2 IC <sub>50</sub> (nM)	0.5	2.5	<1	1.4	1.8	1.3	Desired target
FGFR3 IC <sub>50</sub> (nM)	1	3	19	1.0	4.5	1.6	
FGFR4 IC <sub>50</sub> (nM)	30	5.7	33	60	34	8.3	Off-target
VEGFR2 IC <sub>50</sub> (nM)	71	36.8	120	180	21	UNK	activity
Dosing	13.5 mg QD	8 mg QD	800 mg BID	125 mg QD	300 mg QD	20 mg QD	

1. Liu PCC, et al. AACR 2015. Poster 771; 2. Perera TPS, et al. Mol Cancer Ther. 2017;16:1010-1020; 3. Joerger M, et al. ASCO 2018. Abstract 4513; 4. Collin MP, et al. ChemMedChem. 2018 Mar 6;13(5):437-445; 5. Guagnano V, et al. *J Med Chem*. 2011;54:7066-7083; 6. Nogova L, et al. *J Clin Oncol*. 2017;35:157-165; 7. Hall T, et al. *PLoS ONE*. 2016;11:e0162594; 8. Papadopoulos KP, et al. *Br J Cancer*. 2017;117(11):1592-1599; 9. Babina IS, Turner NC. *Nat Rev Cancer*. 2017;17(5):318-332; 10. Meric-Bernstam F, et al. ESMO GI 2018, abstract 0-001

## Executing a Broad Development Plan across Multiple Tumor Types



## Cholangiocarcinoma: Heterogeneous Tumors Arising in the Bile Duct

- Cholangiocarcinomas (CCAs) are epithelial tumors arising from the biliary tree<sup>1-3</sup>
- Most common primary malignancy of the bile duct
- Heterogeneous tumors that are classified into 3 anatomical subtypes:
  - Intrahepatic
  - Perihilar
  - Distal
- No well established treatment following failure of gemcitabine/cisplatin
- Second line chemotherapies<sup>4-7</sup>:
  - -ORR: <10%
  - median PFS: ~3 months
  - median OS: 6-7 months



## Prognosis of Patients Diagnosed With Cholangiocarcinoma is Poor

- Surgical resection is the only potentially curative therapy for CCA,<sup>1</sup> however:
  - Approximately 70% of patients are diagnosed with unresectable disease<sup>1</sup>
  - Relapse rate is high in patients who undergo surgery<sup>1</sup>
- The 5-year survival rate of CCA patients ranges between 5% to 15%<sup>1</sup>
- For patients with unresectable or metastatic CCA, median survival is <1 year<sup>2</sup>



9



## FIGHT-202: A PHASE 2 STUDY OF PEMIGATINIB IN PATIENTS WITH PREVIOUSLY TREATED LOCALLY ADVANCED OR METASTATIC CHOLANGIOCARCINOMA

Vogel A,<sup>1</sup> Sahai V,<sup>2</sup> Hollebecque A,<sup>3</sup> Vaccaro G,<sup>4</sup> Melisi D,<sup>5</sup> Al-Rajabi R,<sup>6</sup> Paulson AS,<sup>7</sup> Borad MJ,<sup>8</sup> Gallinson D,<sup>9</sup> Murphy AG,<sup>10</sup> Oh D-Y,<sup>11</sup> Dotan E,<sup>12</sup> Catenacci DV,<sup>13</sup> Van Cutsem E,<sup>14</sup> Lihou C,<sup>15</sup> Zhen H,<sup>15</sup> Féliz L,<sup>15</sup> Abou-Alfa GK<sup>16,17</sup>

<sup>1</sup>Hannover Medical School, Hannover, Niedersachsen, Germany; <sup>2</sup>University of Michigan, Ann Arbor, MI, USA; <sup>3</sup>Gustave Roussy, Villejuif, France; <sup>4</sup>Providence Cancer Center Oncology and Hematology Care Clinic, Portland, OR, USA; <sup>5</sup>Università degli studi di Verona, Verona, Italy; <sup>6</sup>University of Kansas Cancer Center, Kansas City, KS, USA; <sup>7</sup>Baylor Charles A. Sammons Cancer Center, Baylor University Medical Center, Dallas, TX, USA; <sup>8</sup>Mayo Clinic Cancer Center, Scottsdale, AZ, USA; <sup>9</sup>Morristown Memorial Hospital, Carol Cancer Center, Morristown, NJ, USA; <sup>10</sup>Sidney Kimmel Comprehensive Cancer Center, Johns Hopkins University School of Medicine, Baltimore, MD, USA; <sup>11</sup>Seoul National University Hospital, Seoul National University College of Medicine, Seoul, South Korea; <sup>12</sup>Fox Chase Cancer Center, Philadelphia, PA, USA; <sup>13</sup>University of Chicago Medicine, Chicago, IL, USA; <sup>14</sup>University Hospitals Leuven and KU Leuven, Belgium; <sup>15</sup>Incyte Corporation, Wilmington, DE, USA; <sup>16</sup>Memorial Sloan Kettering Cancer Center, New York, NY, USA; <sup>17</sup>Weill Medical College at Cornell University, New York, NY, USA

esmo.org

## FIGHT-202: Study Design and Clinical Characteristics

Adults with locally	A: FGFR2 fusions / rearrangements	Pemigatinib
advanced or metastatic	B: other FGF/FGFR genetic alterations	13.5 mg QD (2 weeks on,
cholangiocarcinoma	C: without FGF/FGFR genetic alterations	1 week off)

#### Primary endpoint:

Independently-confirmed ORR in cohort A (patients with FGFR2 fusions or rearrangements)

#### Secondary endpoints:

ORR in cohorts B, A+B, and C Duration of response; disease control rate; progression-free survival; overall survival and safety in all cohorts

Characteristics	<b>Cohort A (n = 107)</b> <i>FGFR2</i> Fusions/ Rearrangements	<b>Cohort B (n = 20)</b> Other <i>FGF/FGFR</i> Genetic Alterations	<b>Cohort C (n = 18)</b> No <i>FGF/FGFR</i> Genetic Alterations	Total (N = 146)*
ECOG PS, n (%) 0 1 2	45 (42) 57 (53) 5 (5)	7 (35) 10 (50) 3 (15)	7 (39) 8 (44) 3 (17)	59 (40) 76 (52) 11 (8)
Number of prior regimens,† n (%) 1 2 ≥3	65 (61) 29 (27) 13 (12)	12 (60) 7 (35) 1 (5)	12 (67) 2 (11) 4 (22)	89 (61) 38 (26) 19 (13)
Prior cancer surgery, n (%)	38 (36)	6 (30)	4 (22)	48 (33)
Prior radiation, n (%)	28 (26)	3 (15)	5 (28)	36 (25)
CCA location, n (%) Intrahepatic Extrahepatic Other/Missing	105 (98) 1 (1) 1 (1)	13 (65) 4 (20) 3 (15) <sup>‡</sup>	11 (61) 7 (39) 0	130 (89) 12 (8) 4 (3)

fight-202

\* The total includes 1 patient who received pemigatinib but had undetermined FGF/FGFR status; analyzed for safety but not efficacy, and was not assigned to a cohort. † Maximum number of 5 therapies in cohort A and 3 in cohort B/C.

‡ Other includes gallbladder (n = 2) and ampulla of vater (n = 1) cancer.

### FIGHT-202: Adverse Events Occurring in ≥25% of Patients

Advorce Event + (9/)	Any AEs (N = 146)*			
Adverse Event, n (%)	All Grades	Grade ≥3		
Hyperphosphatemia <sup>+</sup>	88 (60)	0		
Alopecia	72 (49)	0		
Diarrhea	68 (47)	4 (3)		
Fatigue	62 (42)	7 (5)		
Nail toxicities <sup>+</sup>	62 (42)	3 (2)		
Dysgeusia	59 (40)	0		
Nausea	58 (40)	3 (2)		
Constipation	51 (35)	1 (1)		
Stomatitis	51 (35)	8 (5)		
Dry mouth	49 (34)	0		
Decreased appetite	48 (33)	2 (1)		
Vomiting	40 (27)	2 (1)		
Dry eye	37 (25)	1 (1)		
Arthralgia	36 (25)	9 (6)		

- Hyperphosphatemia<sup>+</sup> managed with a low phosphate diet, phosphate binders, and diuretics, or dose reduction/interruption
  - All grade 1 or 2
  - Few (n=3) required dose reductions/interruptions
- Hypophosphatemia<sup>+</sup> occurred in 23% of patients
  - Most common grade  $\geq$ 3 AE (12%)
  - None clinically significant/serious; none led to discontinuation/dose reduction
- Serous retinal detachment<sup>+</sup> occurred in 4% of patients
  - Mostly grade 1/2 (grade  $\geq 3, 1\%$ )
  - None resulted in clinical sequelae

#### FIGHT-202: Efficacy by Independent Central Review ORR of 36% with durable responses in previously treated patients



Colored bars: confirmed responses per RECIST.

\* Patient had decrease in target lesion size but was not evaluable for response per RECIST.

Variable	<b>Cohort A</b> (n = 107)	<b>Cohort B</b> (n = 20)	<b>Cohort C</b> (n = 18)
ORR (95% CI), %	<b>35.5</b> (26.50–45.35)	0	0
Best OR,* n (%) CR PR SD PD Not evaluable <sup>†</sup>	3 (2.8) 35 (32.7) 50 (46.7) 16 (15.0) 3 (2.8)	0 0 8 (40.0) 7 (35.0) 5 (25.0)	0 0 4 (22.2) 11 (61.1) 3 (16.7)
Median DOR (95% Cl), mo	<b>7.5</b> (5.7–14.5)	-	_
<b>DCR (CR + PR + SD)</b> (95% Cl), %	<b>82</b> (74–89)	40 (19–64)	22 (6–48)

\* Assessed and confirmed by independent central review.

<sup>†</sup> Postbaseline tumor assessment was not performed owing to study discontinuation (2 participants in cohort A, 4 participants in cohort C) or was performed prior to the minimum interval of 39 days for an assessment of SD (1 participant in cohort A, 1 participant in cohort B).

#### FIGHT-202: Efficacy by Independent Central Review Median PFS ~7 months in previously treated patients



	Cohort A	Cohort B	Cohort C
Median (range) duration of follow-up, mo	15.4 (7.0–24.7)	19.9 (16.2–23.5)	24.2 (22.0–26.1)
Median (range) duration of treatment, mo	7.2 (0.2–24.0)	1.4 (0.2–12.9)	1.3 (0.2–4.7)

#### Pemigatinib also Under Evaluation in Patients with Bladder Cancer



## FIGHT-201: Safety & Efficacy to Date

More intensive treatment regimen may increase efficacy, hence move to continuous dosing

Best percent change from baseline in target lesion size in patients with UC and FGFR3 mutations/fusions (Cohort A) $^1$ 



Orange bars = partial response. <sup>a</sup> FGFR3 fusions.

Most common TEAEs<sup>a</sup> that occurred in  $\ge 20\%$  of patients<sup>1</sup>

	Total (N = 108)		
Events, n (%)	All Grades	Grade ≥ 3	
Diarrhea	47 (43.5)	3 (2.8)	
Alopecia	43 (39.8)	1 (0.9)	
Constipation	38 (35.2)	1 (0.9)	
Stomatitis	37 (34.3)	8 (7.4)	
Fatigue	35 (32.4)	6 (5.6)	
Dry Mouth	35 (32.4)	1 (0.9)	
Hyperphosphatemia <sup>b</sup>	34 (31.5)	1 (0.9)	
Decreased appetite	32 (29.6)	4 (3.7)	
Dysgeusia	32 (29.6)	O (O)	
Nausea	28 (25.9)	1 (0.9)	
Asthenia	27 (25.0)	4 (3.7)	
Abdominal Pain	25 (23.1)	3 (2.8)	
Back Pain	22 (20.4)	4 (3.7)	

a Patients were counted once under MedDRA preferred term. b Hyperphosphatemia was managed with phosphate binder, diet, and/or dose interruption. 16

## Continuous Dosing Cohort to Complete Recruitment by End 2019



#### Primary endpoint:

ORR in patients with FGFR3 mutations and fusions/rearrangements

#### Secondary endpoints:

ORR in patients with other FGF/FGFR alterations Progression-free survival and duration of response Safety and tolerability

#### First-Line Bladder Trial is Being Initiated, versus Standard of Care

# fight-205

Metastatic or unresectable urothelial carcinoma in cisplatinineligible participants whose tumors express FGFR3 mutation or fusions/rearrangements

(target N = 372)

Pemigatinib +	pembrolizuı	nab
---------------	-------------	-----

Pemigatinib

Standard of care (chemotherapy<sup>1</sup> or pembrolizumab)

#### **Primary endpoint**: Progression-free survival

#### Secondary endpoints:

Overall survival, objective response rate, duration of response, safety, quality of life

## Tumor-Agnostic Development is an Important Next Step for Pemigatinib



#### The Tumor-Agnostic Trial for Pemigatinib is Now Open



Advanced/metastatic or unresectable solid tumors with FGFR1/2/3 alterations

(target N = 170)

Solid tumor malignancies with FGFR1/2/3 fusions or rearrangements

B:

Solid tumor malignancies with activating point mutations in FGFR1/2/3

C:

A:

Solid tumor malignancies with any other FGFR1/2/3 point mutations and VUS

**Primary endpoint**: Objective response rate (cohorts A and B)

#### Secondary endpoints:

Progression-free survival, duration of response, overall survival, safety



Figure illustrates timelines to first potential in-market approval in each indication.

Patient incidence = estimated number of patients with unresectable / metastatic disease with specific FGFR alteration(s) in US, Europe and Japan. CCA (intrahepatic): Ann Hepatol. 2018 Mar 1;17(2):274-285; Biochim Biophys Acta Mol Basis Dis. 2018 Apr;1864(4 Pt B):1461-1467; J Natl Compr Canc Netw. 2018 Apr;16(4):370-376; Clin Cancer Res. 2018 Sep 1;24(17):4154-4161; Clin Cancer Res. 2016 Jan 15;22(2):291-300. Bladder: Epidemiology, Decision Resources Group, Bladder: 7/2017; Nature Vol 507 20 March 2014, TCGA; Gust KM, et al. Mol Cancer Ther. 2013;12(7):1245-1254 Tumor agnostic: Endometrial American Cancer Society, NCI; Cancer Research; SEER 2018; EU DRG 2018; IARC, 2017 for France, Italy and Spain; ZfKD, 2016 for Germany and ONS, 2016 for UK; Japan https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5323288/ Japan National Cancer Registry; NIH/American Cancer Society for US death rate; SEER 2018. GBM: Ostrum QT, et al. Neuro Oncol. 2018 Oct 1;20(suppl\_4):iv1-iv86; Surveillance of Rare Cancers in Europe (1995-2002), RARECARE [Projected] Other three tumors: Epidemiology, Decision Resources Group: NSCLC: 7/2017; Rectai: 1/2018; H&N: 12/2015.



Q&A



#### **Building Value through Innovative Medicines**

ir@incyte.com

@incyte

## Multiple Opportunities in Patients with Alterations of FGF/FGFR

Opportunities in tumor-defined trials	FGFR alteration	Dationt incidence <sup>1</sup>		
(trials already ongoing)	Alteration type	Prevalence (%)		
Cholangiocarcinoma	FGFR2 fusions/rearrangements	10-16	2,000-3,000	
Bladder cancer	FGFR3 mutations or fusions/rearrangements	15-20	15,000-20,000	
8p11 MPN	FGFR1 fusions/rearrangements	100	~100	

Example opportunities within tumor-agnostic	FGFR alteration	Patient incidence <sup>1</sup>		
pivotal trial (expected to start in 2019)	Alteration type	Prevalence (%)		
Endometrial carcinoma	FGFR2 mutations or fusions/rearrangements	10%		
Glioblastoma	FGFR3 mutations or fusions/rearrangements	10%		
Squamous NSCLC	FGFR1, 2 or 3 mutations or fusions/rearrangements	5%	<b>~15,000</b> new patients annually	
Rectal cancer	FGFR2 mutations	2%	with FGF/FGFR	
SCCHN	FGFR3 mutations or fusions/rearrangements	2%	alterations	
Note: There are				

1. Patient incidence = estimated number of patients with unresectable / metastatic disease with specific FGFR alteration(s) in US, Europe and Japan.

CCA (intrahepatic): Ann Hepatol. 2018 Mar 1;17(2):274-285; Biochim Biophys Acta Mol Basis Dis. 2018 Apr;1864(4 Pt B):1461-1467; J Natl Compr Canc Netw. 2018 Apr;16(4):370-376; Clin Cancer Res. 2018 Sep 1;24(17):4154-4161; Clin Cancer Res. 2016 Jan 15;22(2):291-300. Bladder: Epidemiology, Decision Resources Group, Bladder: 7/2017; Nature Vol 507 20 March 2014, TCGA; Gust KM, et al. Mol Cancer Ther. 2013;12(7):1245-1254 Tumor agnostic: Endometrial American Cancer Society, NCI; Cancer Research; SEER 2018; EU DRG 2018; IARC, 2017 for France, Italy and Spain; ZfKD, 2016 for Germany and ONS, 2016 for UK; Japan https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5323288/ Japan National Cancer Registry; NIH/American Cancer Society for US death rate; SEER 2018. GBM: Ostrum QT, et al. Neuro Oncol. 2018; I/2017; Rectai: 1/2018; H&N: 12/2015.