Bologna Royal Hotel Carlton May 7, 2024

President: Pier Luigi Zinzani





Disclosures of Dr Jean-Marie Michot

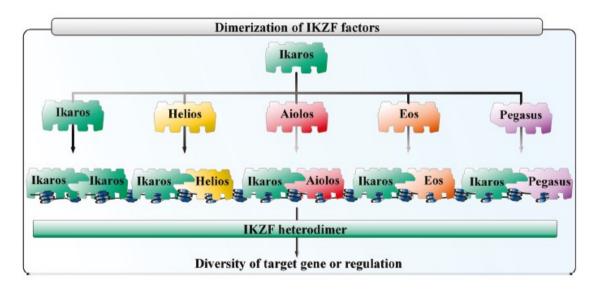
Company name	Research support	Employee	Consultant	Stockholder	Speakers bureau	Advisory board	Other
Gilead			х				
Regeneron							X
GSK	X						x
BMS							X

Background on follicular lymphoma

- Follicular lymphoma (FL) is the most common indolent lymphoma entity¹
- FL is a chronic disease whose evolution is punctuated by several phases of treatment with few perspectives of curative treatment intent to date²
- Standard first-line treatment is based for more than 20 years on immunochemotherapy (R-CHOP or R-CVP or R-BENDA) with toxicities related mainly to chemotherapy²
- Relapses or refractory FL can be difficult to treat, particularly in cases of resistance to immuno-chemotherapy or early relapse (POD24)³
 - → Better understanding the sources of the disease and the search for new therapeutic targets is important to consider to optimize therapies and/or new intent into curative perspectives.

AIOLOS (IKZF3) a transcription factor targetable in B-cell lymphoma

AIOLOS & IKAROS family members¹



AIOLOS functions^{2,3}

Lymphopoïèse regulation T cell – B cell différentiation

Immune system Immune defenses Gammaglobulins

Mature lymphocyte modulation

Modulate gene expression Modulate chromatine state (PRC2 and NuRD complexes)

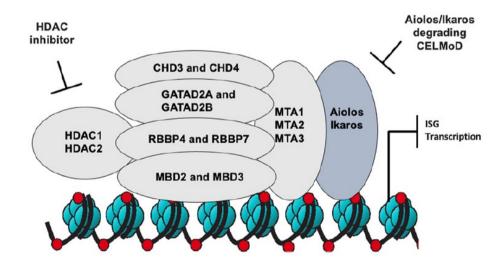
Human diseases

Leukemia Immune deficiency (CIVD) Lymphoma Autoimmune diseases

AIOLOS (IKZF3), transcription factor targetable in B-cell lymphoma

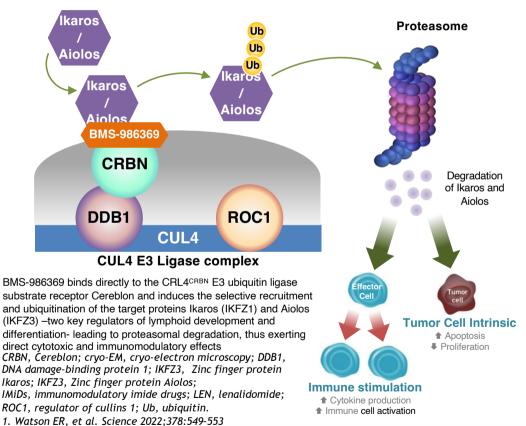
- IKAROS family members are widely involved in B-ALL leukemia with driver mutations
- Not mutated in mature lymphomas, not considered as a driver event.
- The driver genetic events in lymphoma (BCL6, PAX5, and EZH2¹) could be under the control of transcription factors such as AIOLOS / IKAROS¹,²
- In preclinical lymphoma cell lines, AIOLOS/IKAROS cooperate in transcriptional repressor NuRD complex (nucleosome remodeling and deacetylase)²

Model of avadomide and HDAC1/2 inhibition of NuRD complex transcriptional repression to upregulate expression of ISGs²



ISG= interferon-stimulated genes

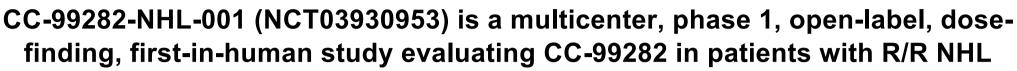
Golcadomide (CC-99282) is a potent first-in-class lymphoma Cereblon E3 ligase modulator (CELMoD®) with pleotropic MoA



Allosteric regulation of cereblon¹



- Recent cryo-EM data indicates that the cereblon complex has both an *open, inactive state* and a *closed, active state* and that IMiDs and CELMoDs drive the closed conformation¹
- Due to the unique binding modes of BMS-986369 it is more efficient than LEN at driving the closed conformation,¹ leading to deeper and more rapid degradation of Ikaros/Aiolos



Population



R/R DLBCL or FL after ≥ 2 LOT or DLBCL after ≥ 1 LOT + unfit for transplant

Primary objective



Safety, tolerability, MTD/RP2D

Secondary objective

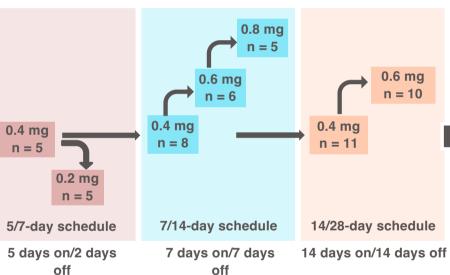


PK, preliminary efficacy

Exploratory objective

Pharmacodynamics

Part A: dose escalation CC-99282 monotherapy



Part B: dose expansion

Monotherapy

Cohort A: R/R DLBCL CC-99282 0.2 mg 14/28, 0.4 mg 7/14, and 0.4 mg 14/28 Cohort B: R/R FL CC-99282 0.2 mg 14/28, 0.4 mg 7/14, and 0.4 mg 14/28

Combination

Cohort C: R/R DLBCL CC-99282 0.2 mg 14/28 and 0.4 mg 14/28 + rituximab^a Cohort D: R/R FL CC-99282 0.2 mg 14/28 and 0.4 mg 14/28 + rituximab^a

 $^{\mathrm{a}}$ Rituximab dosing was 375 mg/m $^{\mathrm{2}}$ on Days 1, 8, 15, and 22 of Cycle 1, and Day 1 of Cycles 2-5.

DLBCL, diffuse large B-cell lymphoma; FL, follicular lymphoma; LOT, line of therapy; MTD, maximum tolerated dose; NHL, non-Hodgkin lymphoma; PK, pharmacokinetics; R/R, relapsed or refractory; RP2D, recommended phase 2 dose.

Duration of treatment is up to 2 years

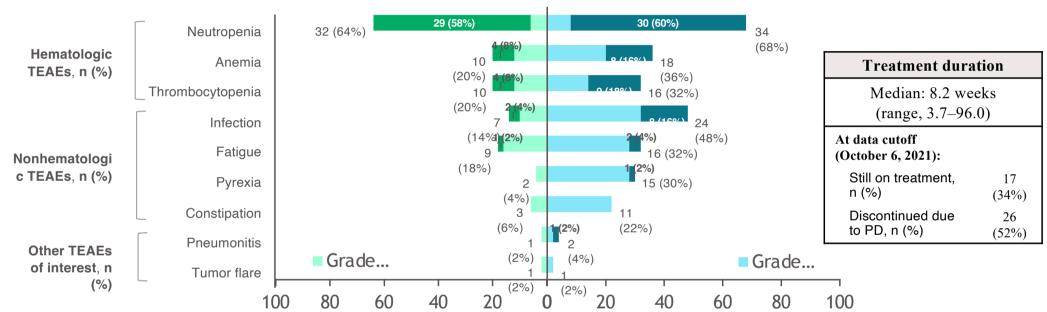
Baseline characteristics of patients enrolled in part A (CC-99282-NHL-001 study)

Characteristic	All patients (N = 50)	
Age, years, median (range)	65.5 (35–89)	
Sex, male, n (%)	29 (58)	
	DLBCL	38 (76)
	NOS	22 (44)
Diagnosis, n (%)	Double-hit or triple-hit positive ^a	7 (14)
	Transformed	16 (32)
	FL (grade I to grade IIIB)	12 (24)
Time from initial diagnosis to first	DLBCL	22.5 (4.5–94.5)
dose, months, median (range)	FL	71.8 (22.5–135.9)
FOOC was afairmed a status as a status	0	21 (42)
ECOG performance status score, n (%)	1	25 (50)
11 (70)	2	4 (8)
Stage IV cancer at diagnosis, n (%)	29 (58)	
	No. of prior lines of therapy, median (range)	3 (1–8)
	Prior stem cell transplant, n (%)	10 (20)
Treatment history	Prior CAR T-cell therapy, n (%)	14 (28)
	Prior lenalidomide/avadomide treatment, n (%)	11 (22)
Data cutoff: October 6, 2021.	Refractory ^b to last regimen, n (%)	25 (50)

^aDouble-hit was defined as positive for MYC + BCL2 or MYC + BCL2, and triple-hit as positive for MYC + BCL2 + BCL6. ^bRefractory was defined as never having achieved an objective response (eg, stable or progressive disease) to prior lines of therapy; patients with short (< 6-month duration) responses to last therapy are not included in this definition. CAR, chimeric antigen receptor; DLBCL, diffuse large B-cell lymphoma; NOS, not otherwise specified.

Common (≥ 20% all-cause) TEAEs and other TEAEs of interesta

CC-99282—related TEAEs All-cause TEAEs (≥ 20%)
32 (64%) patients with grade 3/4 events
40 (80%) patients with grade 3/4 events



- Neutropenia, a class effect of CELMoD agents, was manageable with dose modifications and G-CSF support (31 [62%] patients)
- No patients permanently discontinued treatment with CC-99282 due to neutropenia

^aSafety population. No instances of cytokine release syndrome were observed.
CELMoD, cereblon E3 ligase modulator; G-CSF, granulocyte colony-stimulating factor; PD, progressive disease; TEAE, treatment-emergent adverse event.

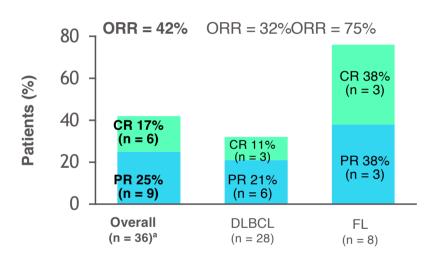
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Promising activity of CC-99282 monotherapy in heavily pretreated patients with R/R NHL

Overall response by tumor type (≥ 0.4 mg CC-99282)



Response at 0.4 mg (the dose of interest) in dosing schedules of interest

Response	7/14 days (n = 8)	14/28 days (n = 11)
PR + CR	38% (n = 3)	45% (n = 5)
CR	25% (n = 2)	36% (n = 4)

• Patients showing objective responses to CC-99282 monotherapy included some patients who had progressed on or after prior treatment with cellular therapy and/or IMiD/CELMoD agents

^aThree patients treated with 0.6 mg on the 14/28 days schedule and 1 patient with 0.6 mg on the 7/14 days schedule had no post-baseline assessments and were ongoing as of the data cutoff date and are not included in the efficacy summary. CELMoD, cereblon E3 ligase modulator; CR, complete response; DLBCL, diffuse large B-cell lymphoma; FL, follicular lymphoma; IMiD,

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13

50

- 50 -100

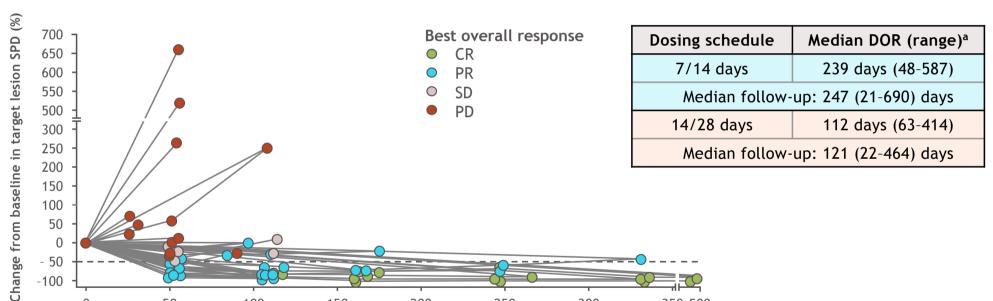
Depth of response over time in patients treated with CC-99282 monotherapy

Median time to response was 53 days (range, 50–107)^a

Change in SPD of target lesions over time

100

150



^aBased on the time to response observed (not censored) values for responders; patients who did not respond were not included in this calculation. CR, complete response; DOR, duration of

200

Time after first dose (days)

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300

350 500

250

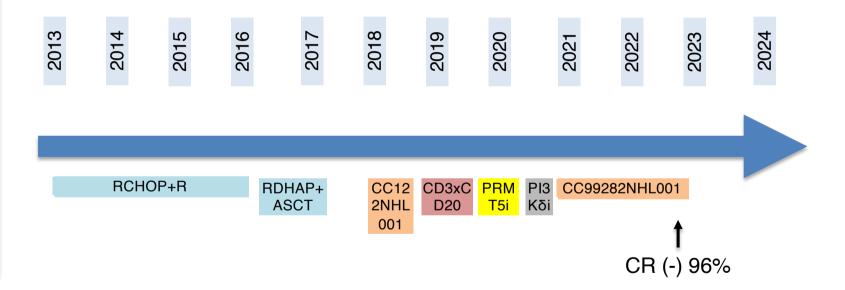
Case study picture

Clinical summary:

- Man 49 y/o
- FL
- G1 WHO
- AA stage IV

Molecular profile (tumor sample) mut:

- CREBBP/KAT3A
- BCL2
- KMT2D/MLL2
- GNA13
- EP300
- MEF2B





Conclusion

- The transcription factor AIOLOS continues to represent a new therapeutic target in B-NHL including FL
- Golcadomide by targeting AIOLOS produces meaningful antitumor efficacy (update data to see at EHA meeting) in B-NHL.
- The tolerance profile of GOLCADOMIDE is acceptable and as expected mainly neutropenia
- Several combination therapeutic trials are underway with golcadomide for B-NHL, in particular agents targeting EZH2 and bispecific CD20xCD3.

Golcadomide for NHL - ongoing Studies

CC-99282-NHL-001

NCT03930953

- Phase 1/2
- R/R DLBCL and R/R FL
- Monotherapy and in combination with other anti-lymphoma agents

Enrolling

CC-220-DLBCL-001

NCT04884035

- Phase 1
- 1L DLBCL
- Combination with R-CHOP or Pola-R-CHP

Enrolling

NCT05169515

- · Phase 1
- R/R DLBCL and R/R FL
- Combination with mosunetuzumab or glofitamab

Enrolling

NCT05283720

- Phase 2
- R/R DLBCL and R/R FL
- · Combination with epcoritamab

Enrolling

NCT06356129

- Phase 3 registrational
- 1L High-Risk LBCL
- Combination with R-CHOP vs R-CHOP

Initiating 1H 2024

CA073-1022

- Phase 2
- 1L FL
- Combination with rituximab vs rituximab + chemotherapy

Initiating 2H 2024

NCT06035497

- Phase 1/2 (Phase 2 registrational)
- · R/R ATL and R/R PTCL, Japan only
- · Monotherapy

Phase 1 enrolling

1L, first line; DLBCL, diffuse large B-cell lymphoma; FL, follicular lymphoma; NHL, non-Hodgkin lymphoma; ATL, adult T cell lymphoma, PTCL, peripheral T cell lymphoma, Pola-RCHP, polatuzumab vedotin, rituximab, cyclophosphamide, doxorubicin and prednisone; R-CHOP, rituximab, cyclophosphamide, doxorubicin, vincristine, and prednisone; R/R, relapsed/refractory

Perspectives to treat B-NHL with chemo free regimens

- Continue the work of understanding the protein targets and transcription factors to be targeted in lymphoma.
- Targeted AIOLOS by protein degraders could represent an ideal booster or synergic effect with BCR-signalling immunotherapy and/or EZH2 inhibitors.
- Select one of the best combinations for the FL which could be based on the CD20/19 axis + AIOLOS axis + EPIDRUG (EZH2) triplet.
- Seek new treatment objectives beyond improving the endpoints of therapies, by considering the curative intent for FL with new combinations.

Perspectives to treat B-NHL with chemo free regimens

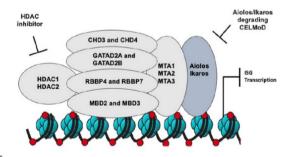
Cooperations and synergistic antitumoral effect of AIOLOS degraders + Epigenetic drugs in lymphoma - *Preclinical results*

CLINICAL CANCER RESEARCH | TRANSLATIONAL CANCER MECHANISMS AND THERAPY

2022

Interactome of Aiolos/Ikaros Reveals Combination Rationale of Cereblon Modulators with HDAC Inhibitors in DLBCL

Patrick R. Hagner¹, Hsiling Chiu¹, Vivek S. Chopra², Martino Colombo³, Nisha Patel⁴, Maria Ortiz Estevez³, Michelle F. Waldman¹, Remco Loos³, Fadi Towfic¹, and Anita K. Gandhi¹



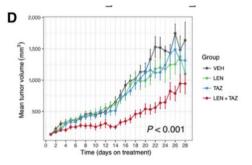
Number of availabilities and HDACI/2 inhibition of NuRD complex transcriptional repression to upregulate expression of ISGs. Multipronged approach to inhibition of the NuRD complex through CELNoD-mediated degradation of Aiolos and Ikaros in combination with HDACI/2 inhibitor, resulting in increased ISG transcription and synengistic artificing feature subtrieves in DECL cells.

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Combined EZH2 Inhibition and IKAROS Degradation Leads to Enhanced Antitumor Activity in Diffuse Large B-cell Lymphoma

2021 Check for updates

Kit I. Tong¹, Sharon Yoon^{1,2}, Keren Isaev¹, Mehran Bakhtiari¹, Tracy Lackraj¹, Michael Y. He¹, Jesse Joynt^{1,2}, Anjali Silva^{1,3}, Maria C. Xu⁴, Gilbert G. Privé^{1,5}, Housheng Hansen He^{1,5}, Rodger E. Tiedemann^{1,5}, Elizabeth A. Chavez⁶, Lauren C. Chong⁶, Merrill Boyle⁶, David W. Scott⁶, Christian Steidl⁶, and Robert Kridel^{1,2,5}



Perspectives to treat B-NHL with chemo free regimens

We need

- Multi-drug regimens
- Mutli-class regimens
- With synergy
- With tolerability

2/ Targeting protein

degraders

IMIDs, CELMOD

1/ BCR signaling immunotherapies

MoAb ADC Bispe CART

CD20 / CD19
CD22/ CD79 PD1/PDL1
LAG3
ROR1
BCR
Signaling CD47

E.G. TRIPLET chemofree regimens to treat FL

3/ Molecular targeted therapies or Epidrugs

EZH2 inh, BET inh, KMT2D inh, BTK inh, PI3K inh, MALT1 inh, Cell cycle inh, CDK9 inh



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Dr JM Michot; Jean-marie.michot@gustaveroussy.fr