



Réunion Onco-gynécologie Bourgogne Franche Comté

Les essais cliniques au CGFL

Le 28/03/2023

Dr Jean-David Fumet, M.D, PhD

Cancer de l'ovaire : 1ere ligne



Gynécologie > Ovaire > 1. 1ère Ligne

ACCUEIL <

FILTRES

CENTRE GEORGES FRAN...

MEDICAL

PHASE II

NIRVANA-1

carboplatine taxol puis niraparib versus carboplatine taxol avastin puis nirapar...

Séreux ou endometroïde de haut grade, non mucineux, non cellules claires, Stade ...

SURGERY

PHASE III

CHRONO

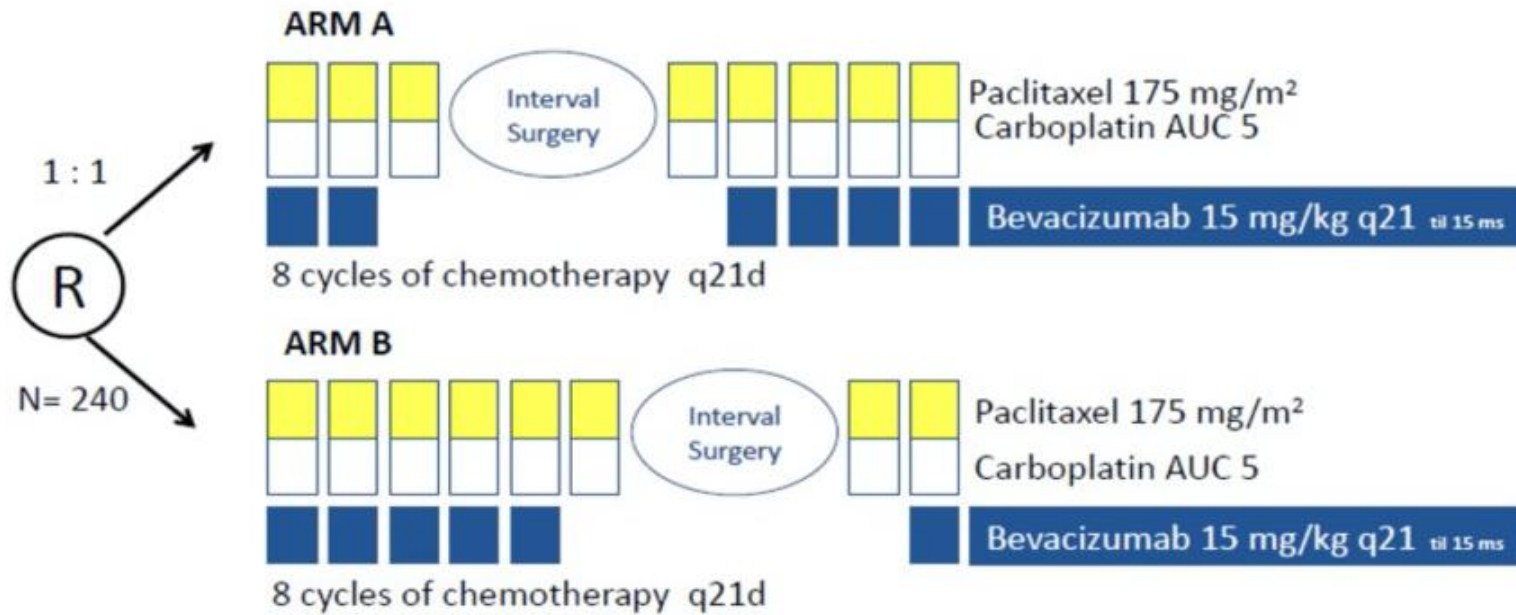
Chirurgie retardée après une chimiothérapie néoadjuvante dans le cancer de l'ova...

Chimiothérapie première, opérable à 3 cures

CHRONO



Chirurgie d'intervalle ou après 6 cures? CHRONO TRIAL



Cancer de l'ovaire : Rechute platine sensible



MEDICAL

PHASE II

TEDOVA

Entretien par OSE2101 vs OSE2101 + Pembrolizumab vs rien

HLA-A2+, Rechute platine sensible, ayant déjà eu inhibiteurs de PARP et bevacizu...

Cancer de l'ovaire : rechute platine résistante



Gynécologie > Ovaire > 3. Rechute platine résistante

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FILTRES

CENTRE GEORGES FRAN...

MEDICAL

PHASE I

PHASE II

Zn-c3-006

ZN-c3 (inhibiteur de WEE1) + niraparib

Actuellement en phase 1 escalade de dose : Cancer de l'ovaire résistant au plati...

ZN-c3-006

SIV Training

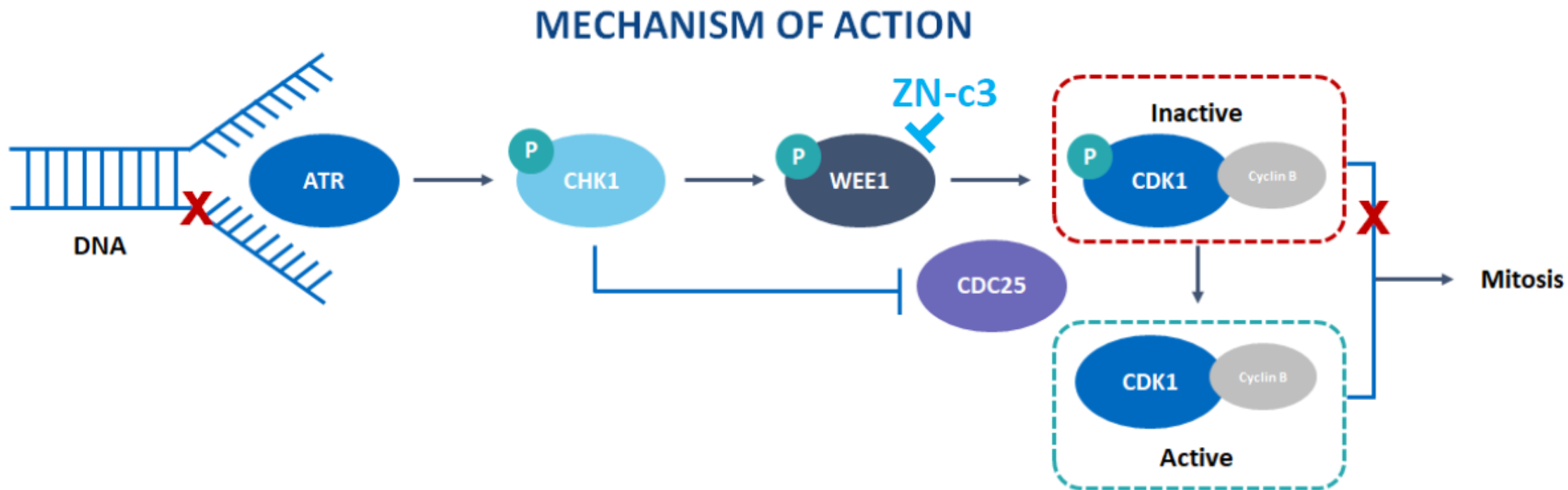
A Phase 1/2 Dose-Escalation and Dose-Expansion Study of ZN-c3 in Combination with Niraparib in Subjects with Platinum-resistant Ovarian Cancer

Sponsor: K-Group Beta, Inc.
Version 8.0

Site Name

SIV Date

ZN-c3: A DNA Damage Response (DDR) Drug Candidate

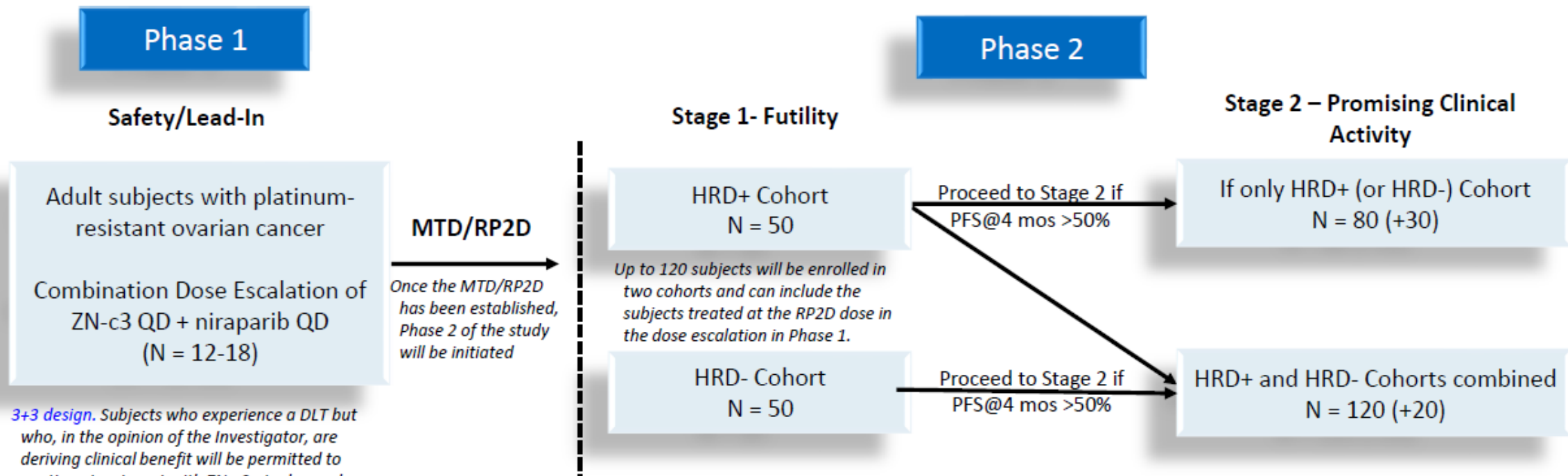


- WEE1 is a protein kinase expressed at high levels in many cancer types that prevents entry into mitosis in response to DNA damage by regulating the G2 checkpoint
- WEE1 inhibition causes cancer cells to proceed to mitosis without repairing DNA damage, resulting in premature mitotic entry and apoptosis
- ZN-c3 has demonstrated significant growth inhibition and induced apoptosis *in vitro* and anti-tumor activity *in vivo*

Source: Drawing based on Targeting WEE1 Kinase in Cancer. Matheson CJ, et al. Trends Pharmacol Sci. 2016

Overall Study Design

- **Phase 1/2 Study Design: ZN-c3 in combination with Niraparib**
 - Approximately 140 adult subjects with Platinum-resistant Ovarian Cancer will be enrolled
 - Adults with advanced platinum-resistant ovarian cancer who have failed PARP inhibitor (PARPi) maintenance therapy (PARPi treatment interval < 6 months due to progressive disease)



3+3 design. Subjects who experience a DLT but who, in the opinion of the Investigator, are deriving clinical benefit will be permitted to continue treatment with ZN-c3 at a lower dose that is deemed "safe" by the model, upon reasonable resolution of the DLTs.

Abbreviations: HRD= homologous recombination deficiency; N= number of subjects; PFS= progression-free survival

Cancer de l'ovaire en première ligne

Chirurgie première

(NIRVANA)



Chirurgie intervallaire

CHRONO



Cancer de l'ovaire en rechute platine sensible

Reprise chimiothérapie par doublet de platine +/- maintenance

TEDOVA

Cancer de l'ovaire en rechute platine résistante

Chimiothérapie *Zn-C3-006*

Cancer du col : localisé



Gynécologie > Col > 1. Localisé

ACCUEIL <

FILTRES

CENTRE GEORGES FRAN...

SURGERY

PHASE III

SENTICOL III

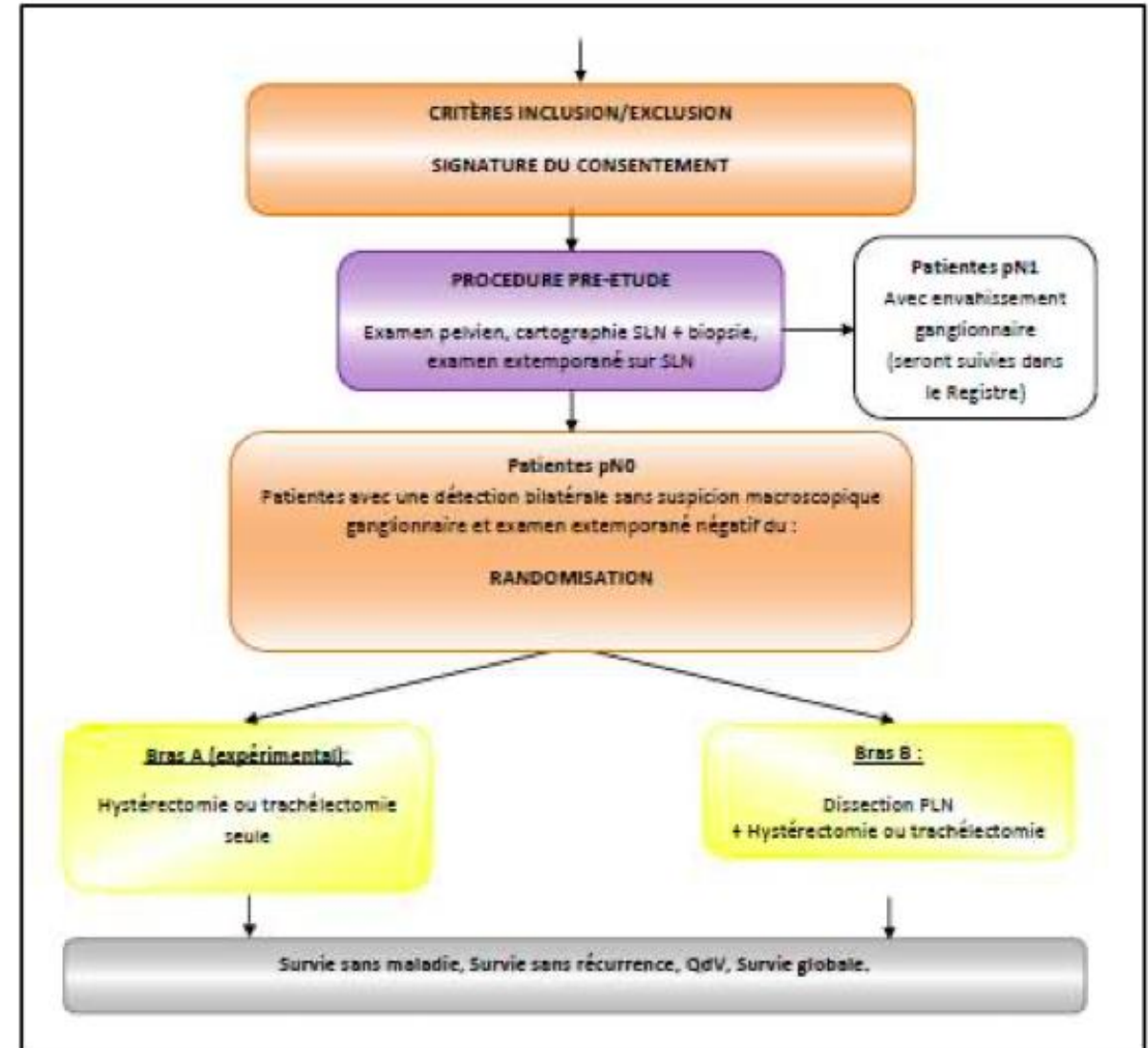
Validation du GS dans les petits cols

Ia1 avec embols, Ia2, Ib1, Ib2, IIa1 / NO IRM

SENTICOL III

CRITÈRES D'INCLUSION

1. Carcinome épidermoïde ou un adénocarcinome du col de l'utérus (prouvé par une biopsie ou une biopsie conique),
2. Stade Ia1 avec emboles lymphovasculaires, Ia2, Ib1 et IIa1 (stade clinique) de la classification 2009 de la FIGO.
3. Diamètre maximal ≤ 40 mm à l'examen clinique et à l'imagerie par résonance magnétique (IRM),
4. INo ganglion suspect sur l'IRM pelvienne et abdominale avec une exploration jusqu'à la veine rénale fémorale gauche (selon RECIST 1.1),
5. Statut de performance 0-2 de l'Eastern Cooperative Oncology Group (ECOG),
6. Consentement éclairé signé et capacité à se conformer au suivi,
7. Sujets français : en France, un sujet sera éligible pour l'inclusion dans cette étude seulement s'il est soit affilié à, soit bénéficiaire d'une catégorie de sécurité sociale.



Cancer du col métastatique

- **2 enjeux :**
 - l'immunothérapie le plus précocement possible
 - Des solutions après immunothérapie

Rechute après platine : AGADIR

Etude AGADIR (Institut Bergonié)

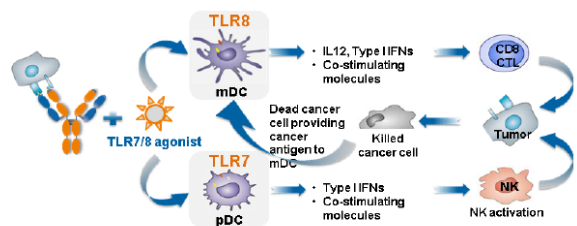
Résumé :

C'est une étude multicentrique, prospective, en ouvert, de type « basket » pour évaluer de manière indépendante et simultanée l'efficacité de l'association atezolizumab + BDB001 + RT dans plusieurs types de tumeurs solides avancées.

- Population 1 : Cancer du pancréas
- Population 2 : Tumeurs viro-induites
- Population 3 : Cancer bronchiques non à petites cellules
- Population 4 : Sarcomes des tissus mous
- Population 5 : Cancer de la vessie
- Population 6 : Cancer du sein triple négatif

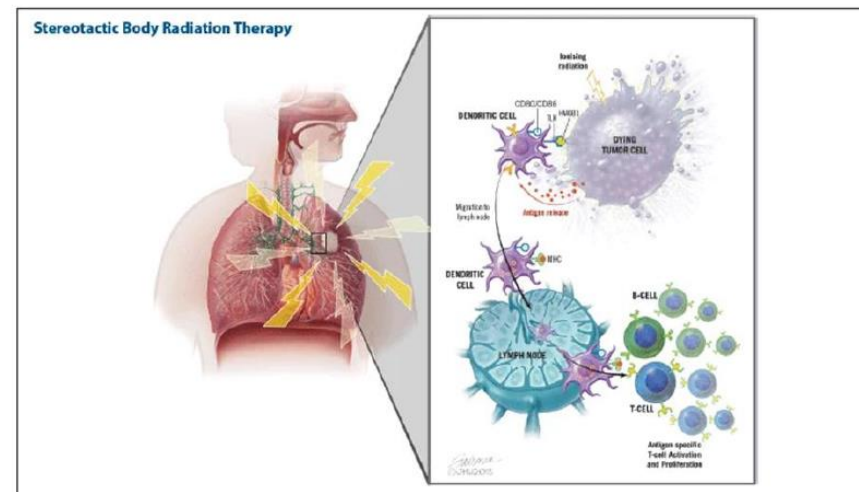
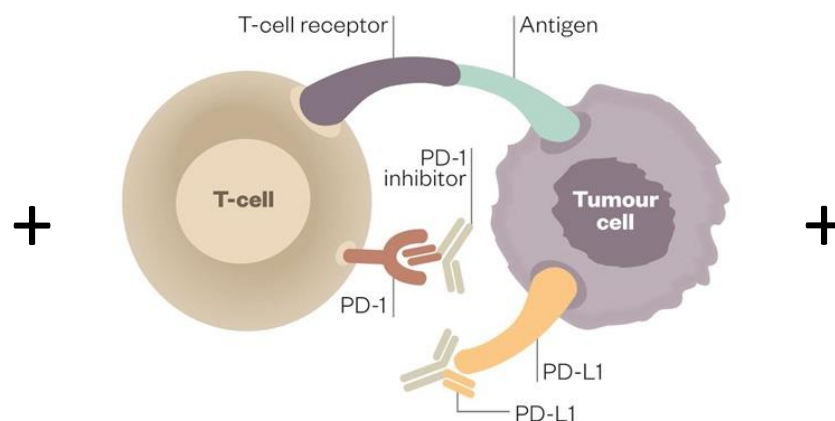
Le cycle du traitement dure 21 jours

TLR7/8 dual agonists – activating both pDC and mDC 2 is better than 1



Together with target/immune therapies, TLR7/8 agonists activate innate immunity and generate adaptive immune responses

2 07FEB2021



Potential Immune-Stimulatory Effects of SBRT for Lung Tumors—SBRT induces inflammatory cell death and activation of dendritic cell and antigen presentation in the draining lymph node, resulting in antigen-specific adaptive immune responses. SBRT = stereotactic body radiation therapy.

CRITERES D'INCLUSION (1/4)



- 1. Histologie : diagnostic histologiquement confirmé de **cancer pancréatique** (population 1), de **tumeur viro-induite** [incluant les cancers liés au papillomavirus (col de l'utérus, tête et cou, anal), les cancers liés au virus Epstein-Barr (carcinome nasopharyngé), les sarcomes de Kaposi associés au virus de l'herpès] (population 2), de **cancer bronchique non à petites cellules** (population 3), de **sarcome des tissus mous** (population 4), de **cancer de la vessie** (population 5) ou de **cancer du sein triple négatif** (population 6). *Pour la population 4, le diagnostic devra être confirmé et revu dans le cadre du réseau RRePS selon les recommandations de l'Inca.*
- 2. Maladie **métastatique**,
- 3. Age ≥ 18 ans,
- 4. ECOG, Performance status ≤ 1 ,
- 5. Au moins 2 lésions : une **lésion qui peut être traitée par radiothérapie** et une **lésion mesurable selon les critères RECIST** [(plus grand diamètre) ≥ 10 mm et en dehors de champs d'irradiation, sauf si progressive à l'inclusion]. Cette dernière lésion ne devra pas être irradiée. A noter toutefois que les lésions qui seront traitées par radiothérapie pourront être considérées comme mesurables si elles répondent à la définition des critères RECIST. A noter que les lésions irradiées ne peuvent excéder une taille maximale de 3 cm,
- 6. Espérance de vie > 6 mois,
- 7. Présence d'**une lésion tumorale qui puisse être biopsiée pour la recherche**. Les lésions tumorales à proximité des structures vasculaires telles que les gros vaisseaux, anévrisme ou malformation artério-veineuse pulmonaire ne pourront être considérées comme des lésions pouvant être biopsiées,
- 8. Disponibilité de matériel tumoral archivé (FFPE) pour la recherche,

GYNET

A randomised, multicentre, open label, Phase I/II study to evaluate the safety (Phase I - safety run in), clinical and biological activity (Phase II) of a humanized monoclonal antibody targeting Netrin-1 (NP137) in combination with carboplatin plus paclitaxel and/or pembrolizumab in patients with locally advanced/metastatic endometrial carcinoma or cervix carcinoma progressing/relapsing after at least one prior systemic chemotherapy.

Sponsor : Netris Pharma

Chief Investigator : Pr Isabelle Ray Coquard,

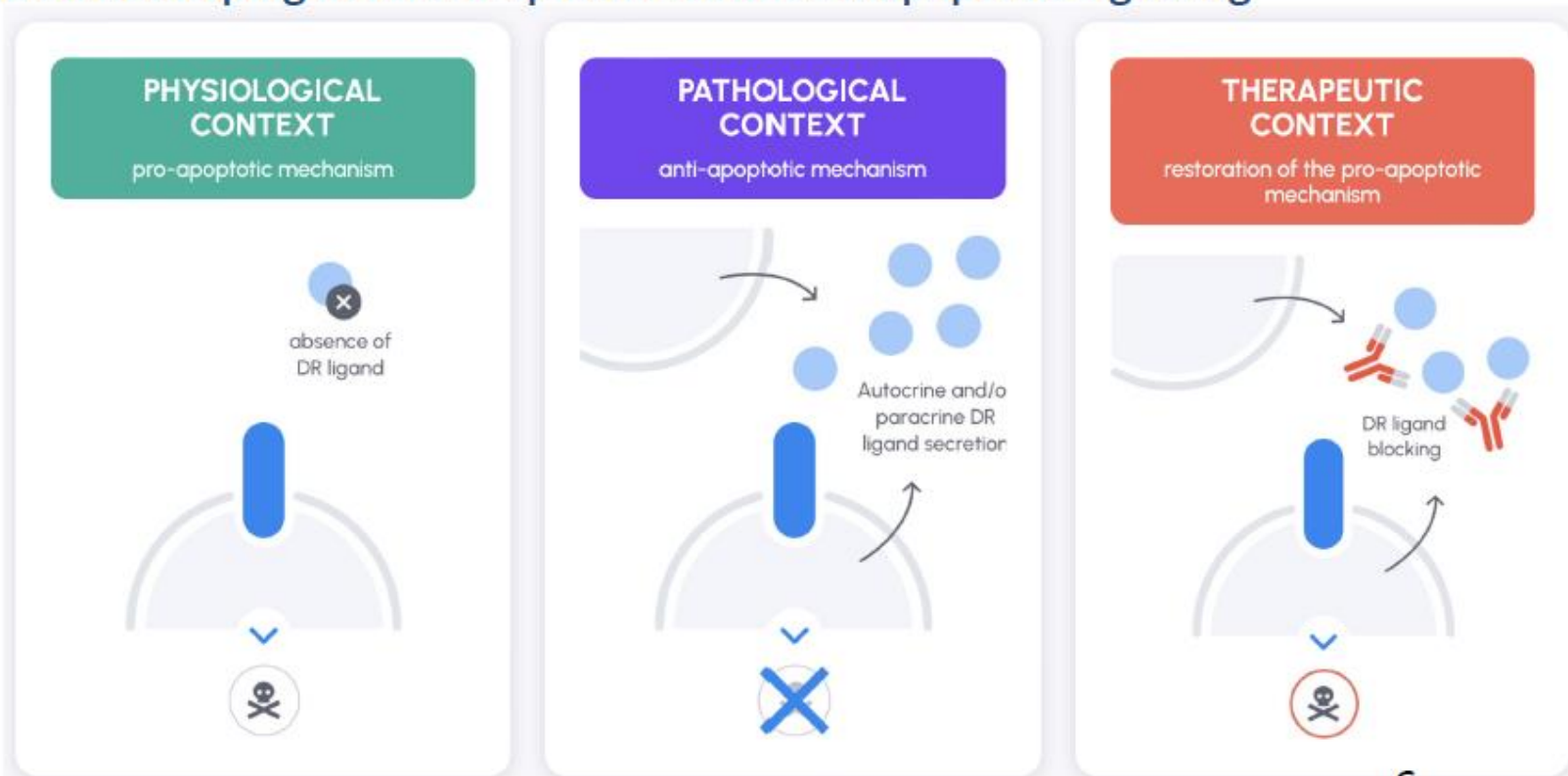
Coordinating center : DRCI – Centre Léon Bérard



Netris Pharma, in a glimpse



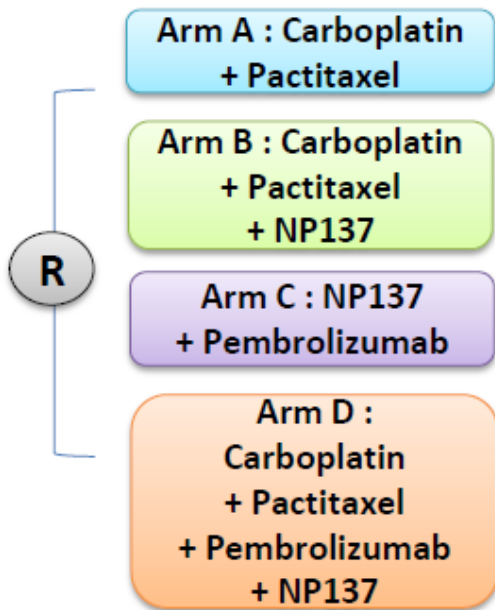
- NETRIS Pharma is a privately held biotech based in Lyon, France
- First Spin-off from Centre Léon Bérard
- Focused on developing novel therapies to restore DR apoptosis signaling



Strictly confidential

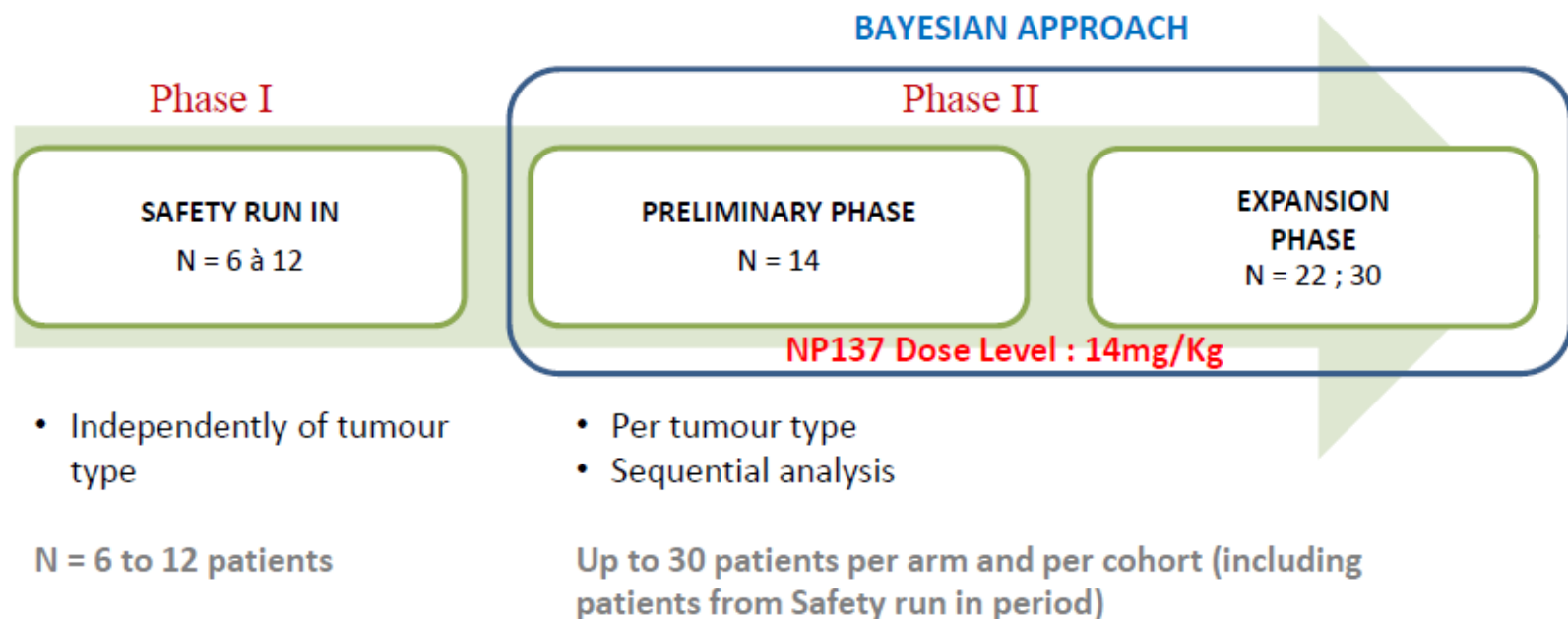
Cohort 1: locally advanced / metastatic endometrial carcinoma

Cohort 2: locally advanced / metastatic adenocarcinoma or epidermoid cervix carcinoma



- Stratification criteria :
 - The number of prior chemotherapy lines before inclusion (1L versus > 2L or 3L)
 - The mutational status (MSI/MSS) for endometrium carcinoma only
- No cross over allowed

Validation by an iDMC



Stop for futility if Prb (ORR < 20%) > 95%

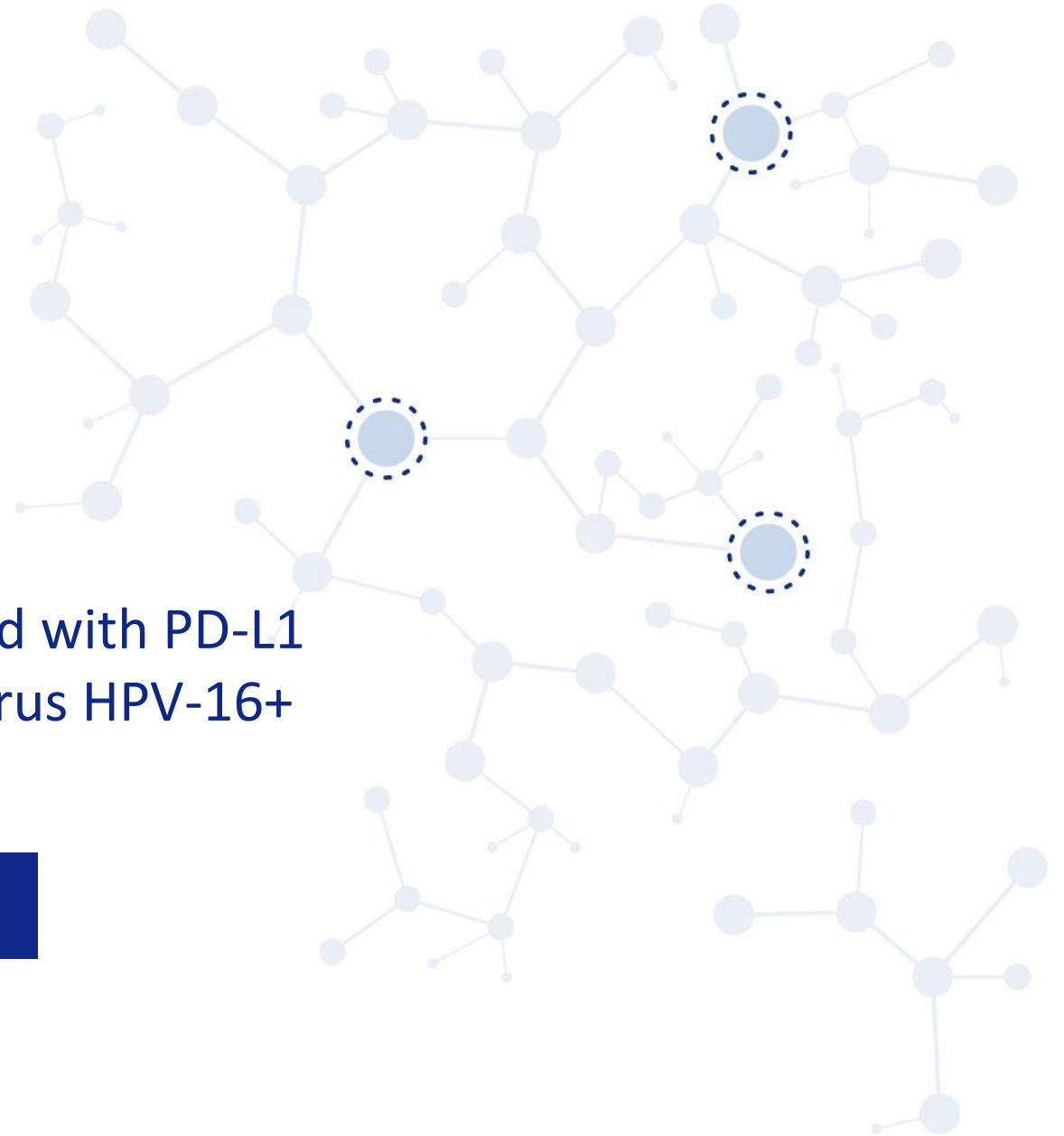
Stop for efficacy if Prb (ORR ≥ 30%) > 90%

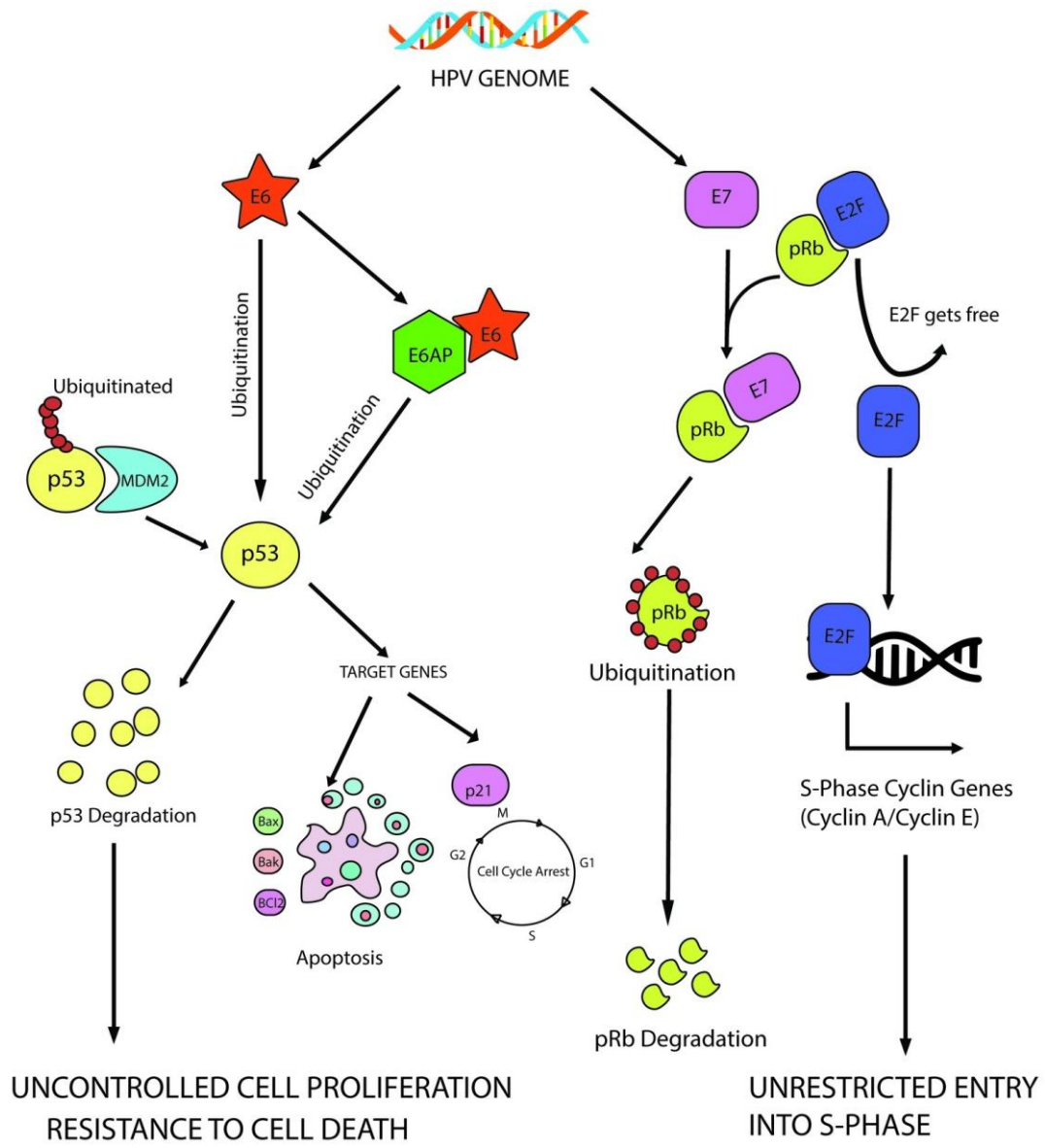


TG4001 therapeutic vaccination combined with PD-L1 blocker avelumab in Human Papilloma Virus HPV-16+ malignancies

Clinical Trial TG4001.12

18 January 2023



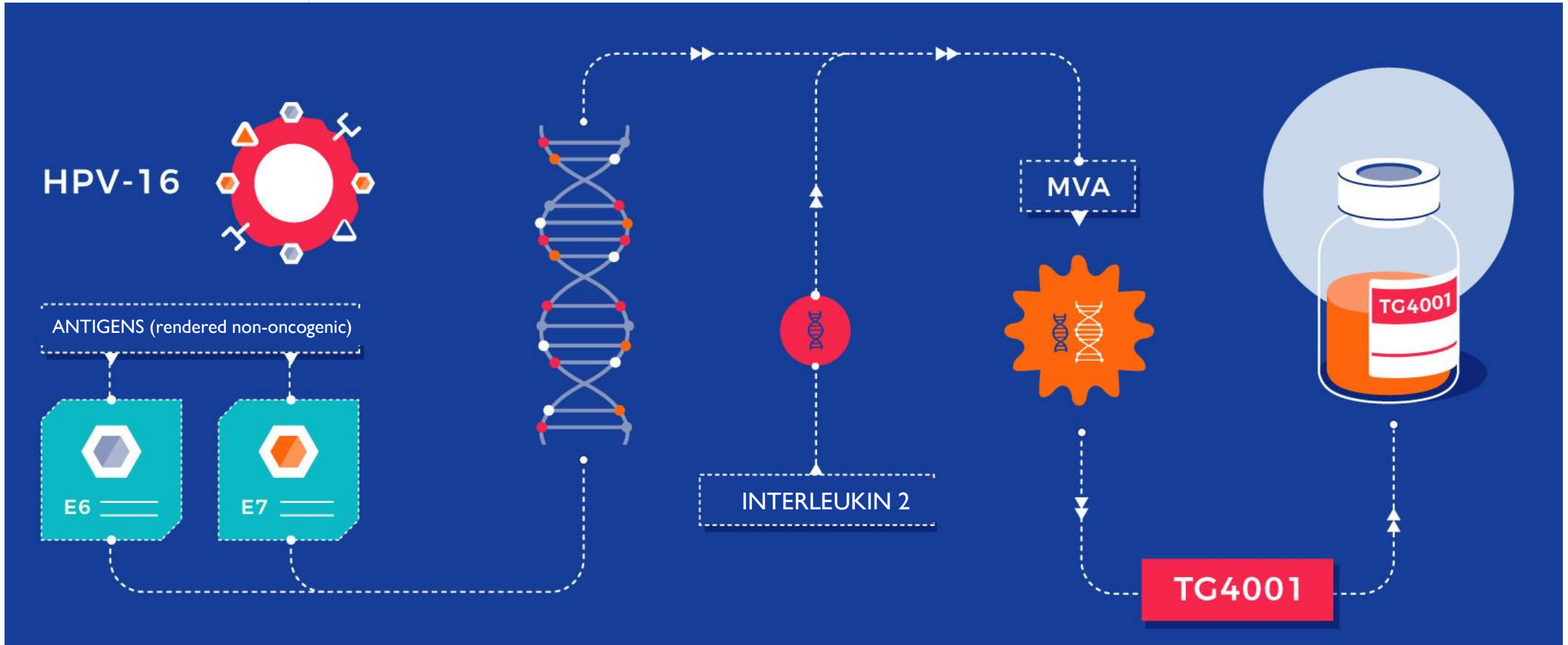


UNCONTROLLED CELL PROLIFERATION
RESISTANCE TO CELL DEATH

UNRESTRICTED ENTRY
INTO S-PHASE

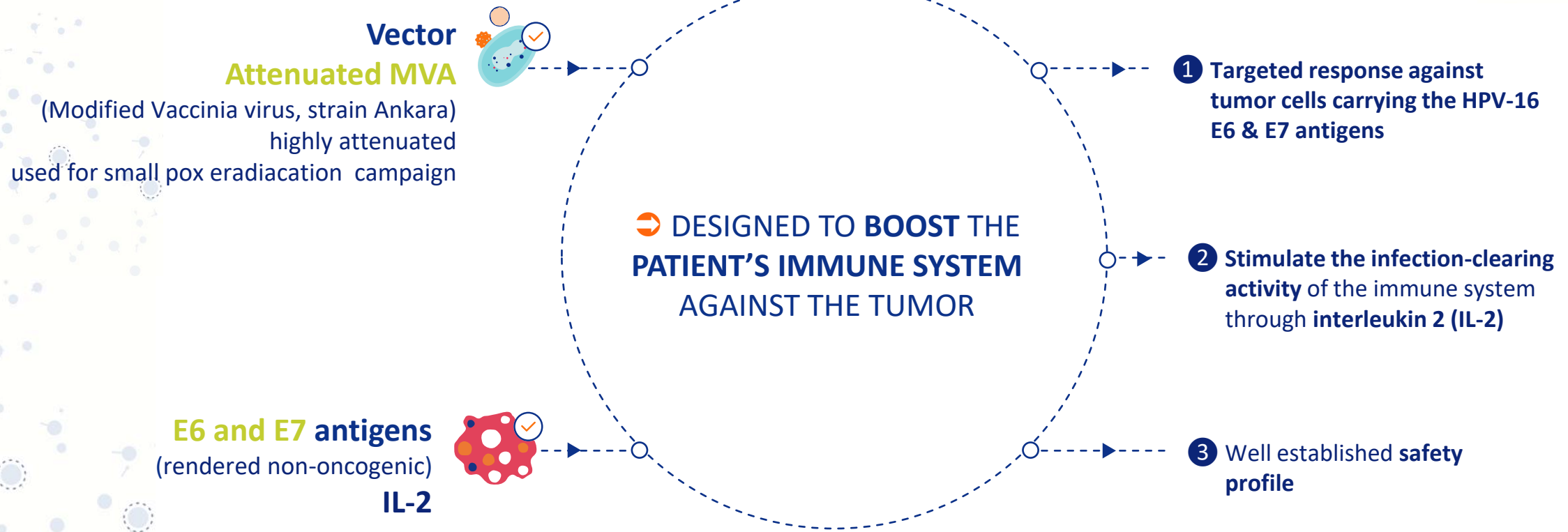
TG4001 | Therapeutic Vaccine Targeting HPV-Positive Cancers

Click to edit Master title style



TG4001 – Therapeutic vaccine

Click to edit Master title style



TG4001 | Randomized Controlled Phase II Trial Supported by Clinicians

Main Cohort: Patients with HPV16+ recurrent / metastatic anogenital cancer

Without liver metastases at Baseline

Randomized (1:1)

Arm A

TG4001 + avelumab

Arm B

Avelumab single agent

PRIMARY ENDPOINTS

✓ Progression-Free Survival (RECIST 1.1)

SECONDARY ENDPOINTS

- ✓ Overall Response Rate
- ✓ Disease Control Rate
- ✓ Overall Survival
- ✓ Other Immunological Parameters

Ancillary Cohort: Patients with HPV16+ recurrent / metastatic anogenital cancer

With liver metastases at Baseline

Randomized (1:1)

Arm A

TG4001 + avelumab

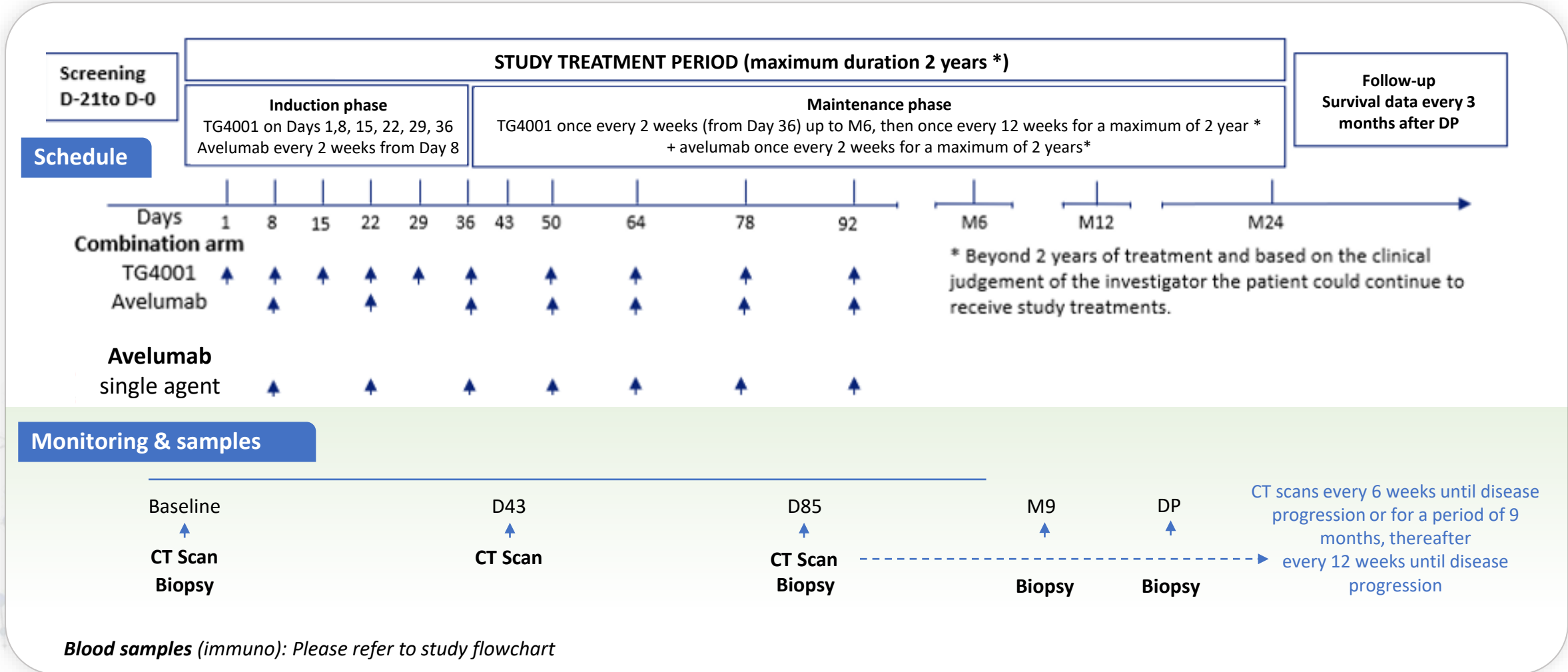
Arm B

Avelumab single agent

ENDPOINT : Percentage of progressors at Day 43, max. 10 patients per arm

TG4001 + Avelumab (Randomized Ph II part 2) | Administration Schedule

Click to edit Master title style



- **TG4001:** 5×10^7 pfu – administered SC
- **Avelumab:** 800mg – administered IV

TG4001.12 Phase II part 2 Eligibility

Inclusion Criteria

1. Signed written informed consent to accordance with ICH-GCP and national/local regulation before any protocol-related procedures that are not part of normal patient care (*e.g. CT or MRI, biopsy, determination of HPV-16 positivity by specified central laboratory*)
2. Female or male patients, **aged 18 to 80 years**
3. Eastern Cooperative Oncology Group (ECOG) **Performance Status 0 or 1** (Appendix I)
4. Life expectancy of at least 3 months
5. Patients with histologically or cytologically documented metastatic or refractory/recurrent **HPV-16+ cancer (determined in an accredited central laboratory using a validated assay)**
6. **Patients with HPV-16+ cancers including cervical, vulvar, vaginal, penile, and anal cancer**
7. Disease **MUST** not be amenable to curative surgery resection or curative radiotherapy with documented disease progression after concertation with multidisciplinary board

TG4001.12 Phase II part 2 Eligibility

Inclusion Criteria

8. **Prior therapy: For recurrent /metastatic disease no more than one prior line of chemotherapy which can contain a platinum**

Prior treatment for recurrent or metastatic disease is not required for:

- **Patients - Patients who with recurrence/progression within 6 months after completion of prior multimodal therapy for localized or locally advanced disease not amenable to curative treatment are unsuitable for platinum-based therapy**
- **Patients who refuse chemotherapy or other standard therapies for the treatment of metastatic or recurrent disease.** The benefit of an immunotherapy over standard therapies must be validated by the medical board and duly documented.

A minimum of 4 weeks interval should have elapsed between the completion of the last chemotherapy and study treatment start

A minimum of 4 weeks interval between palliative bone directed radiotherapy and the start of the study treatment provided that radiation therapy does not affect the unique measurable lesion, if applicable

9. **For patients with hepatic metastases**

- **no more than 3 hepatic lesions in total (target and non-target lesions)**
- **maximum size of hepatic target disease \leq 30 mm according to RECIST 1.1**

Cancer du col localisé

Petit col : *SENTICOL III*

Cancer du col métastatique

1ere ligne : *TRANSGENE à venir*

2^e ligne et plus :

HPV16+ : *TRANSGENE à venir*

HPV +/- : *GYNET*

Cancer de l'endomètre métastatique



 ACCUEIL <

Gynécologie > Endomètre > Métastatique 1L

FILTRES

CENTRE GEORGES FRAN...

MEDICAL

PHASE III

DOMENICA

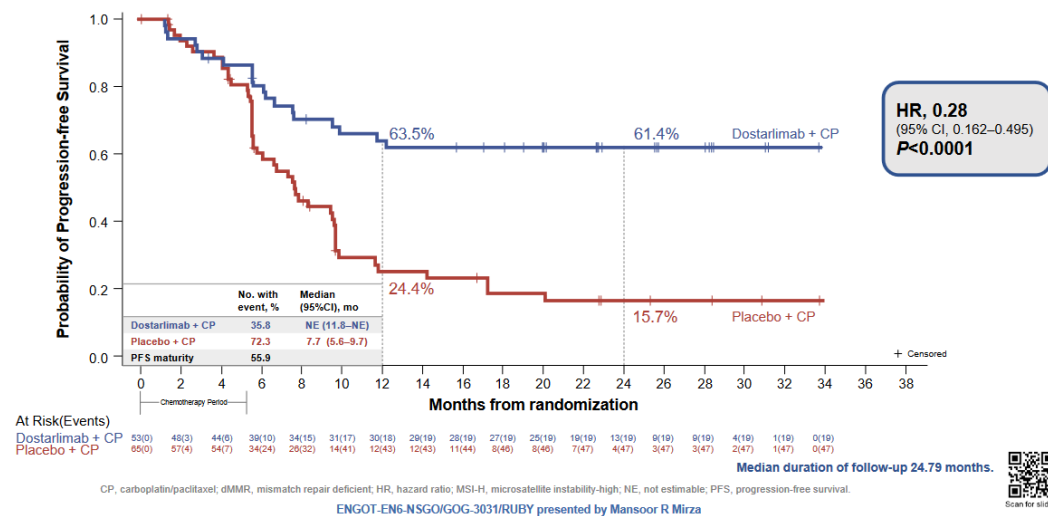
Dostarlimab vs carboplatin-paclitaxel

Cancer endomètre, MMRd/MSI-H, 1ère ligne métastatique

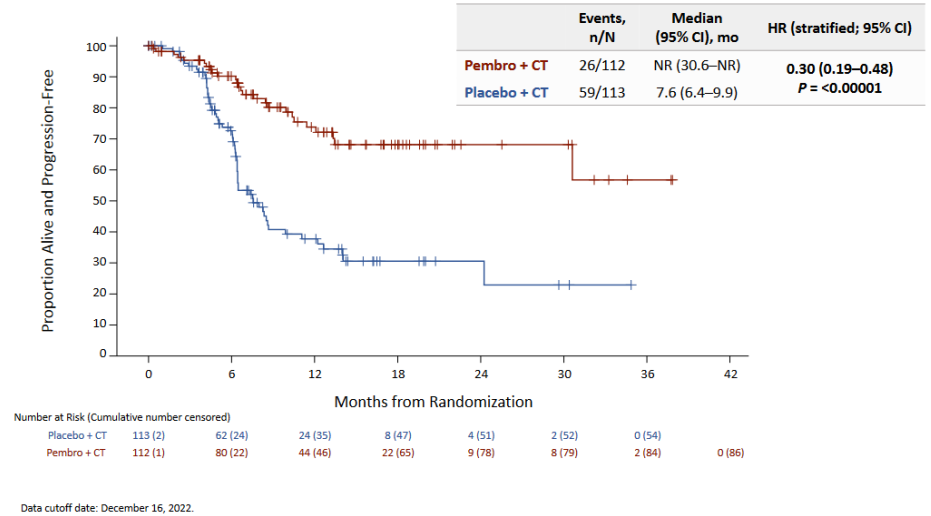
RUBY et NRG GY018

ENGOT NSGO-CTU GOG FOUNDATION

Primary Endpoint: PFS in dMMR/MSI-H Population



PFS per RECIST v1.1: dMMR Population



Cancer de l'endomètre

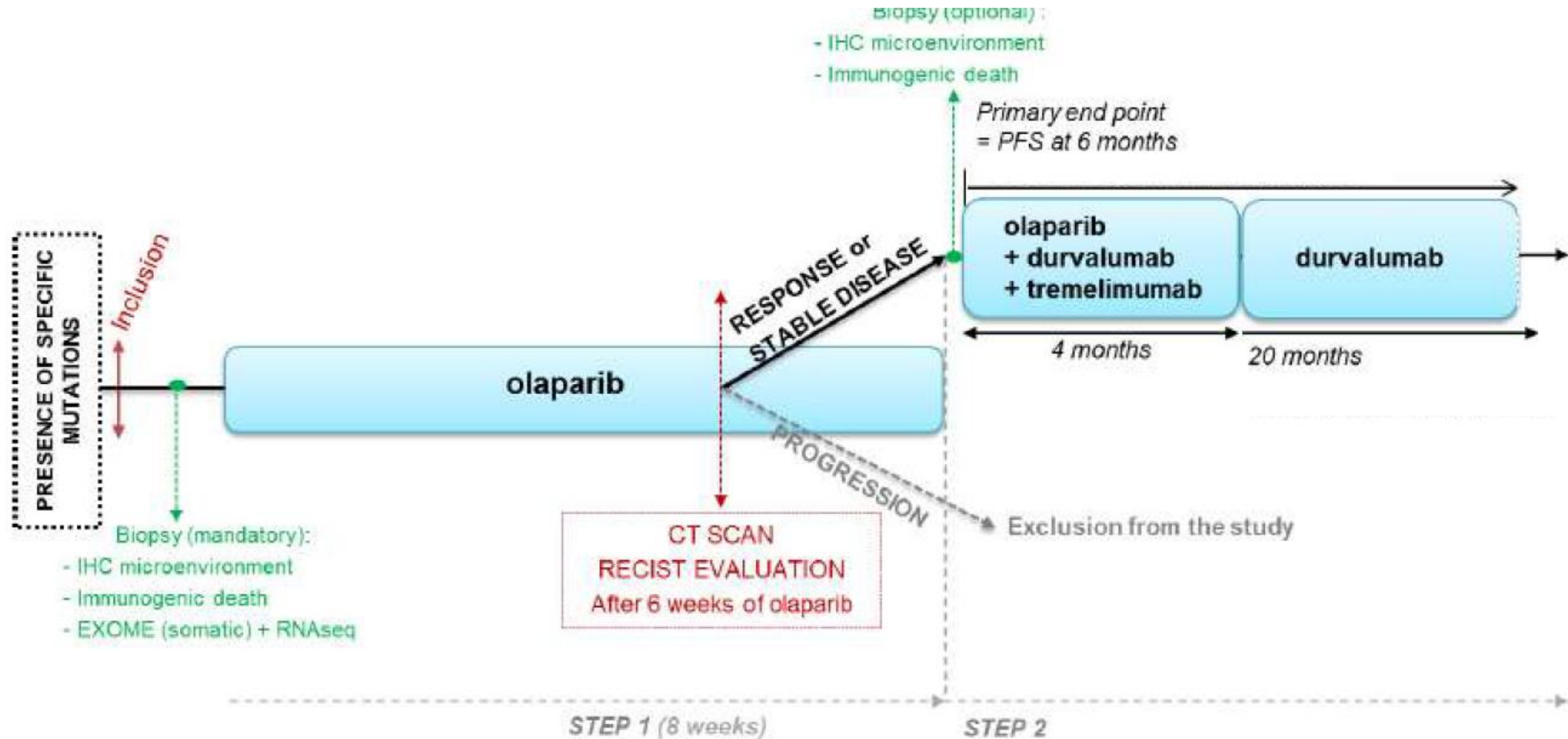
- Métastatique

- L2 et plus :

- *GYNET*

- selon les biologie moléculaire : *GUIDE2REPAIR, RLY 4008-101, NAV-1003*

Etude GUIDTOREPAIR



En cas d'anomalie FGFR (10-12% des cancers de l'endomètre)

Etude RELAY RLY-4008-101 Phase I

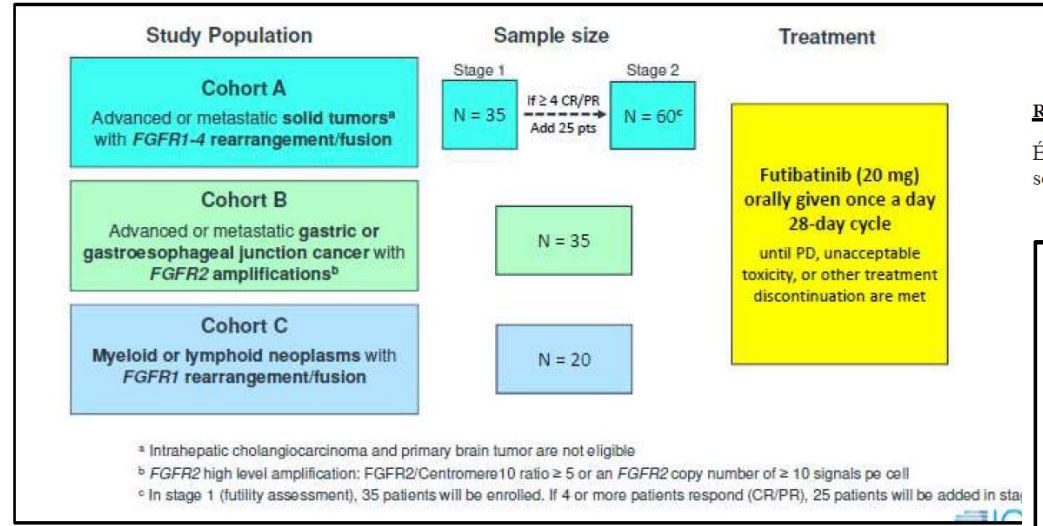
Résumé :

C'est une première étude chez l'homme évaluant un inhibiteur hautement sélectif du FGFR2, le RLY-4008, chez des patients atteints de cholangiocarcinome intrahépatique (CCI) et d'autres tumeurs solides à un stade avancé.

Le cycle du traitement dure 4 semaines (28 jours)

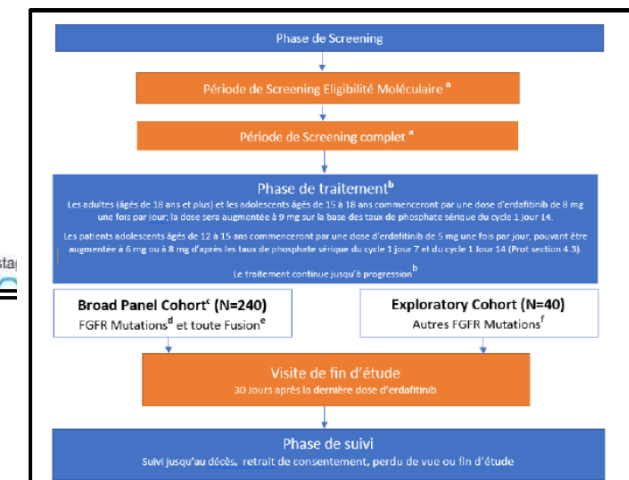
« TAS 120 »

Etude du futibatiniib chez des patients atteints d'altération de FGFR.



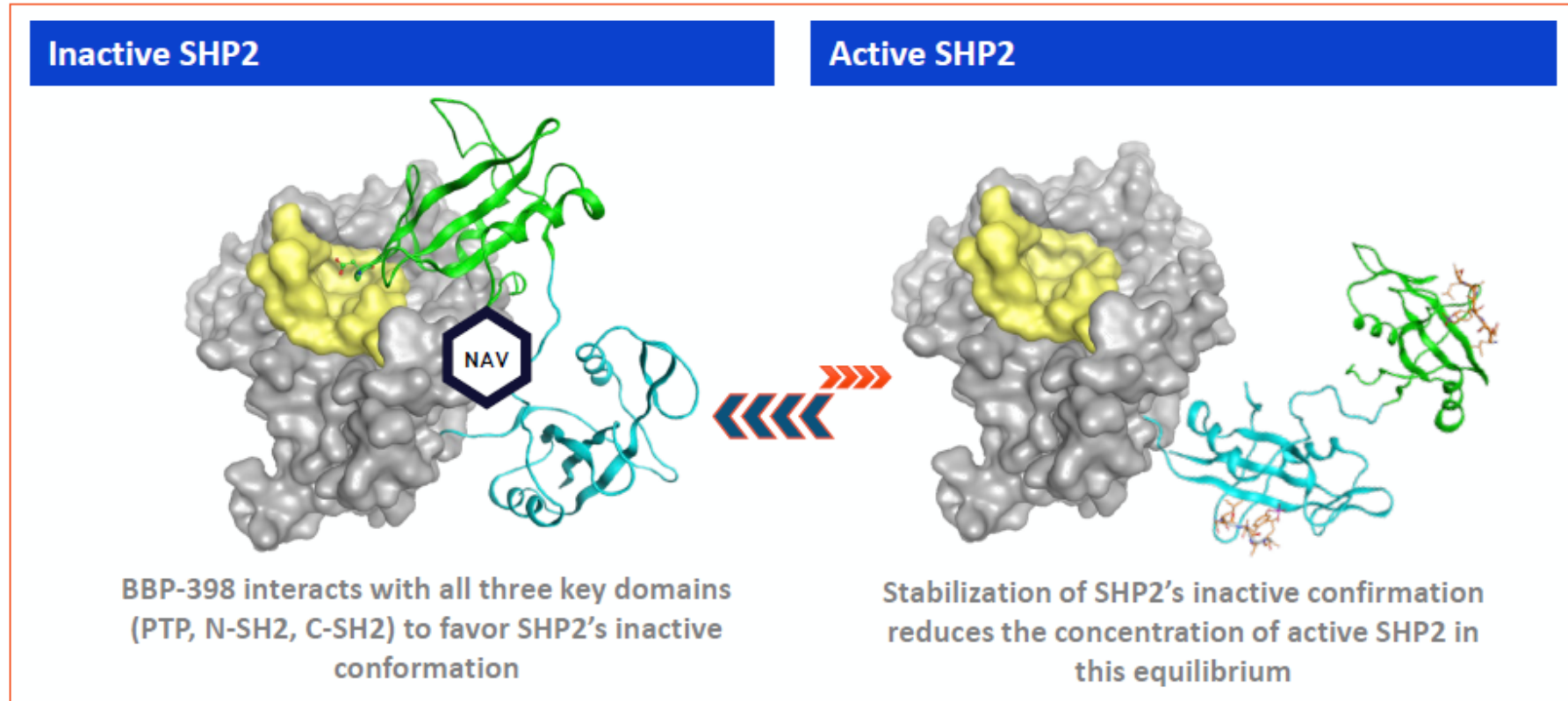
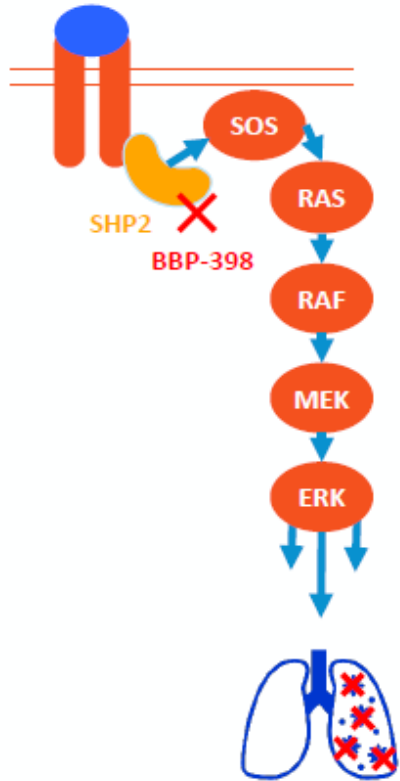
RAGNAR

Étude de Phase 2 évaluant l'erdafitinib chez les patients atteints de tumeurs solides avancées avec des altérations des gènes FGFR.



Navire has developed “molecular glue” that holds SHP2 in its inactive conformation

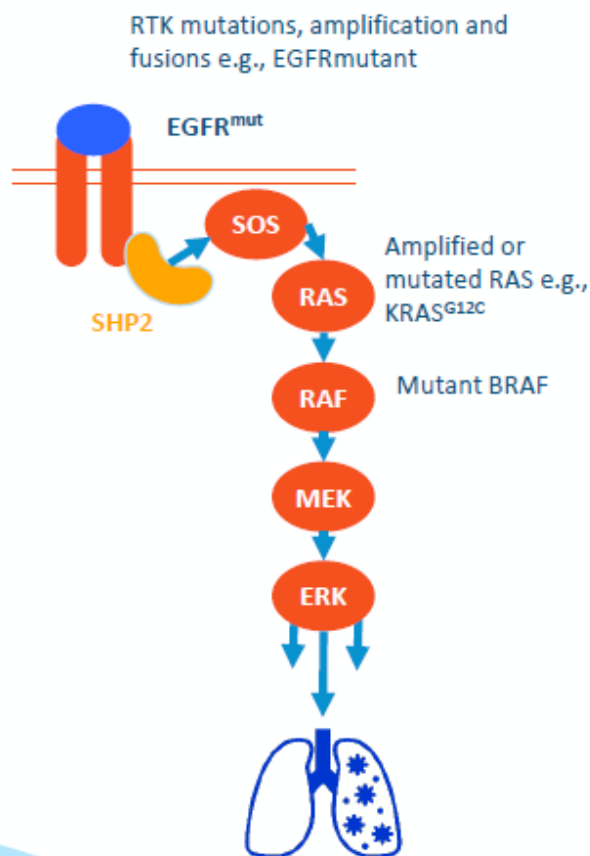
Illustration of Navire’s mechanism of selective SHP2 inhibition



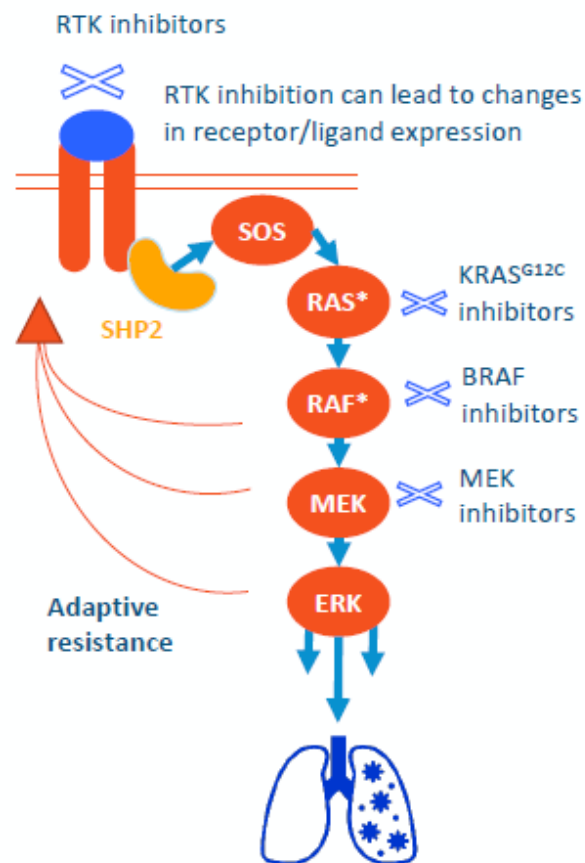
» BBP-398 is a selective, orally bioavailable, allosteric inhibitor of SHP2, offering potential to treat the variety of tumors that rely on SHP2 activity for proliferation/survival

SHP2 is a regulator of the MAPK pathway; its inhibition mitigates cancer signaling and resistance

Overactive MAPK activity leads to oncogenesis, tumor growth and invasion



SHP2 regulates adaptive resistance, including RTK/GF expression changes and relief from feedback inhibition



MAPK signaling drives proliferation, survival, adhesion, and migration

Key inhibitor properties for a wildtype target in the MAPK pathway (e.g., SHP2i and MEKi)



Potency: demonstrates robust target engagement at tolerated doses



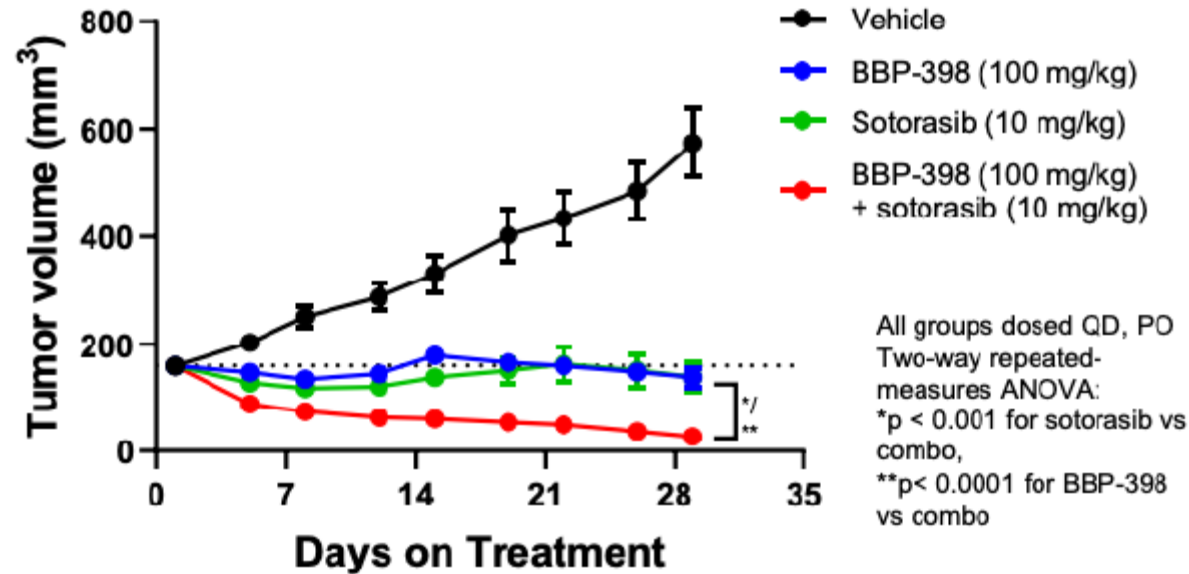
Relatively short half-life: providing target coverage over threshold for most of the PK interval (70-80%), while allowing for recovery underneath threshold for normal cells

- Most importantly, this PK profile permits dose reduction in combination that still achieves meaningful target inhibition



Tolerable continuous daily dosing: convenient for dose optimization in combination

NCI-H358 (KRAS^{G12C}) - NSCLC CDX



Group (n=10)	Day 29		
	Mean tumor regression	Number of regressions	Mean body weight change
● Vehicle	-	0/10	+5.1%
● BBP-398 (100 mg/kg)	14%	8/10	-6.5%
● Sotorasib (10 mg/kg)	13%	9/10	-0.3%
● BBP-398 (100 mg/kg) + sotorasib (10 mg/kg)	83%	10/10	-2.4%

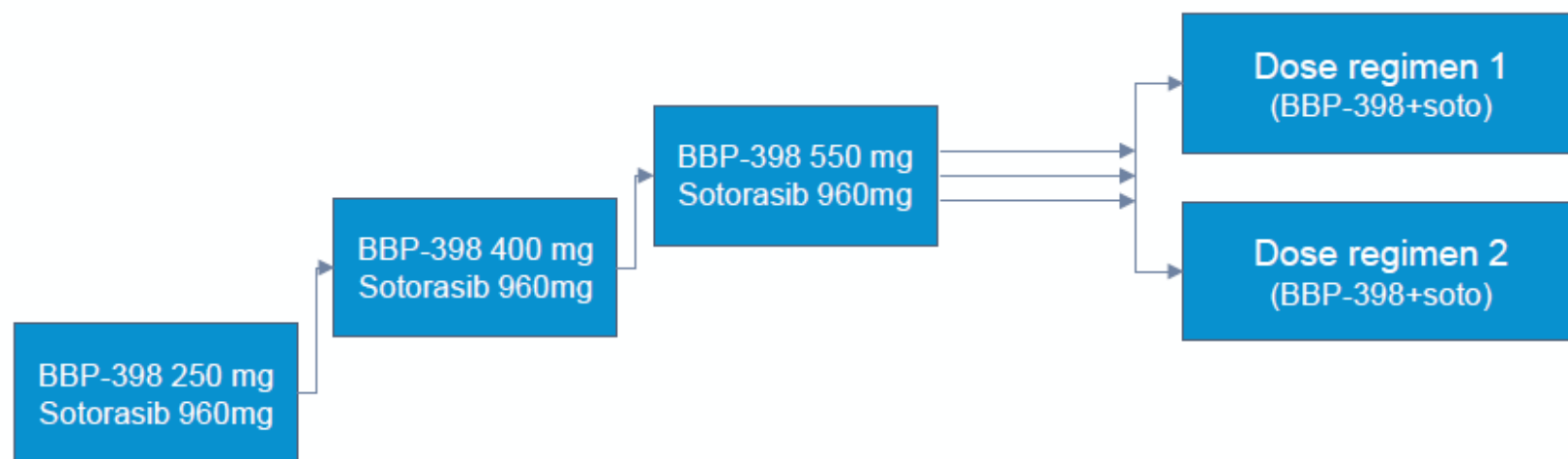
NAV-1003: a Phase 1 study investigating BBP-398 and sotorasib for KRAS-G12C mutant solid tumor/NSCLC



Study Schematic

Phase 1a dose escalation

Phase 1b dose expansion/optimization



- BOIN dose escalation
- N=~5 per dose level
- Number of sites: ~12

- N= ~30 per cohort
- Number of sites: ~30
- Subjects randomized

Patient population highlights:

- Diagnosis of local advanced (primary or recurrent) and unresectable or metastatic solid tumor
- Documentation of a KRAS G12C mutation from a local or central laboratory in tumor or liquid biopsy samples collected within 2 years prior to screening
- In dose expansion only:
 - NSCLC naïve to treatment with KRASG12Ci
 - Documentation of progression or recurrent disease on or after one prior line of systemic therapy, which must include platinum-based doublet chemo and/or anti-PD-(L)1 therapy

Projected trial timelines

Q3 2022

Q4 2022

Q2 2023

Q3 2023

Inclusion Criteria (1/3)

1. **Individuals ≥ 18 years old and be willing and able to provide signed informed consent** at the Screening Visit as well as comply with all study visits and requirements through the end of the study.
2. **Documentation of a KRAS-G12C mutation** from local or central laboratory testing in tumor or liquid biopsy samples, collected within 2 years prior to screening, and have no other previously identified targetable driver mutations.
3. **Measurable disease** by **RECIST v1.1**.
4. **Minimum life expectancy of >12 weeks** after the start of study treatment according to the investigator's judgement.
5. Women of **childbearing potential** **MUST** have:
 - **Negative serum human chorionic gonadotropin test** during screening and within 48 hours of initiating dosing or
 - Had a hysterectomy, bilateral salpingectomy or bilateral oophorectomy, or
 - Had menopause (defined as 12 consecutive months of amenorrhea; if not known, FSH should be performed to confirm).

Cancer de l'endomètre localisé

Pas d'études disponibles

Cancer de l'endomètre métastatique

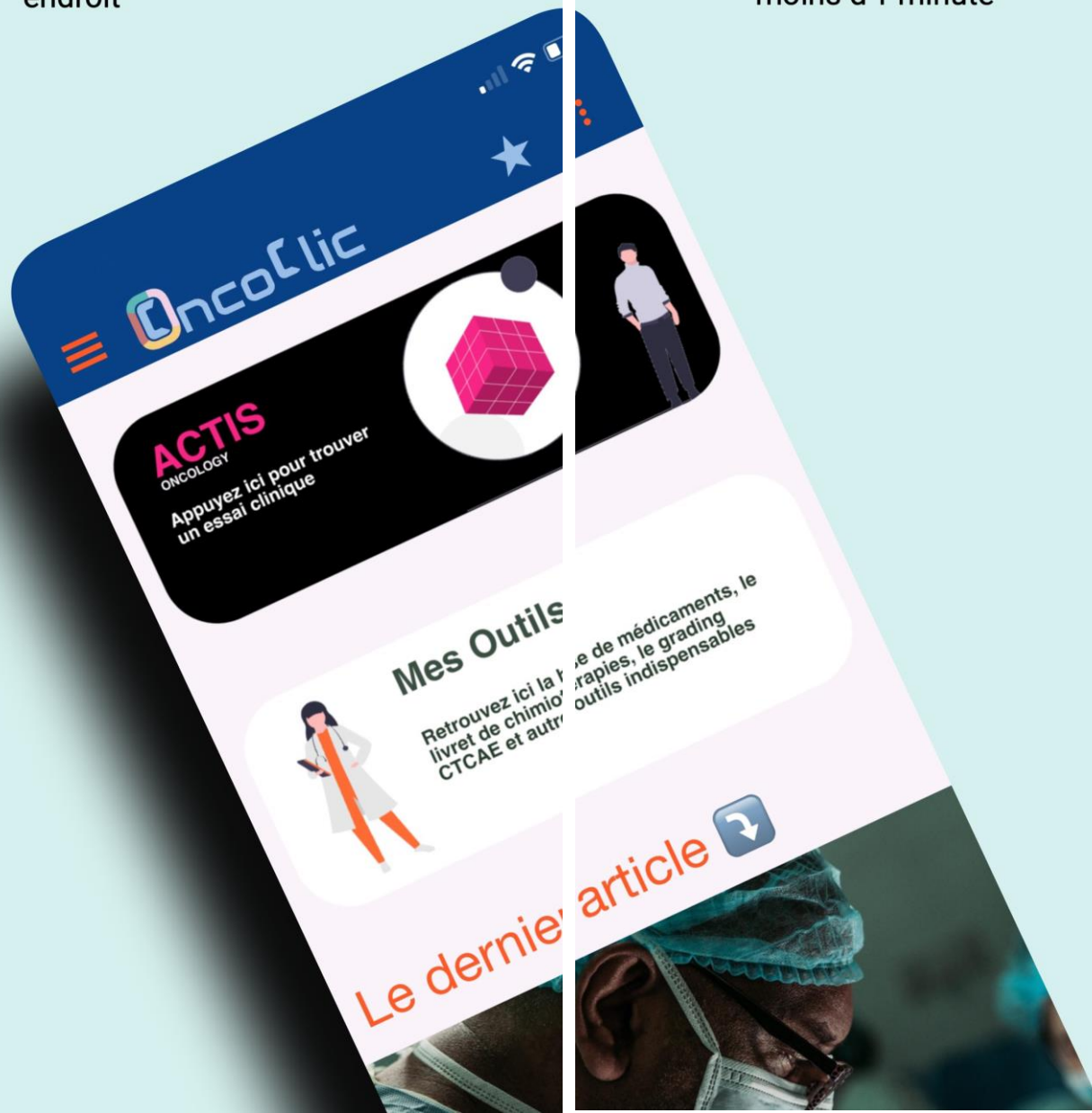
1ere ligne : *DOMENICA* si MSI + inclusion EXOMA 2

2^e ligne

- Anomalie RH : *GUIDTOREPAIR*
- MSS/MSI : AAP Levantinib Pembrolizumab ou *GYNET*
- Anomalie FGFR : *RELAY*
- KRAS G12C : *NAV-1003*

OncoClic

La bonne information au bon endroit



ACTIS Oncology

Trouver un essai clinique en moins d'1 minute

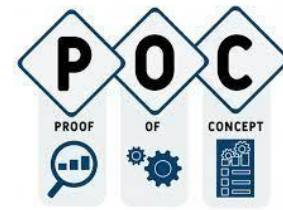
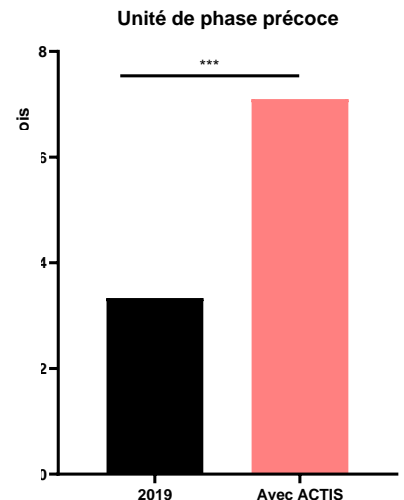
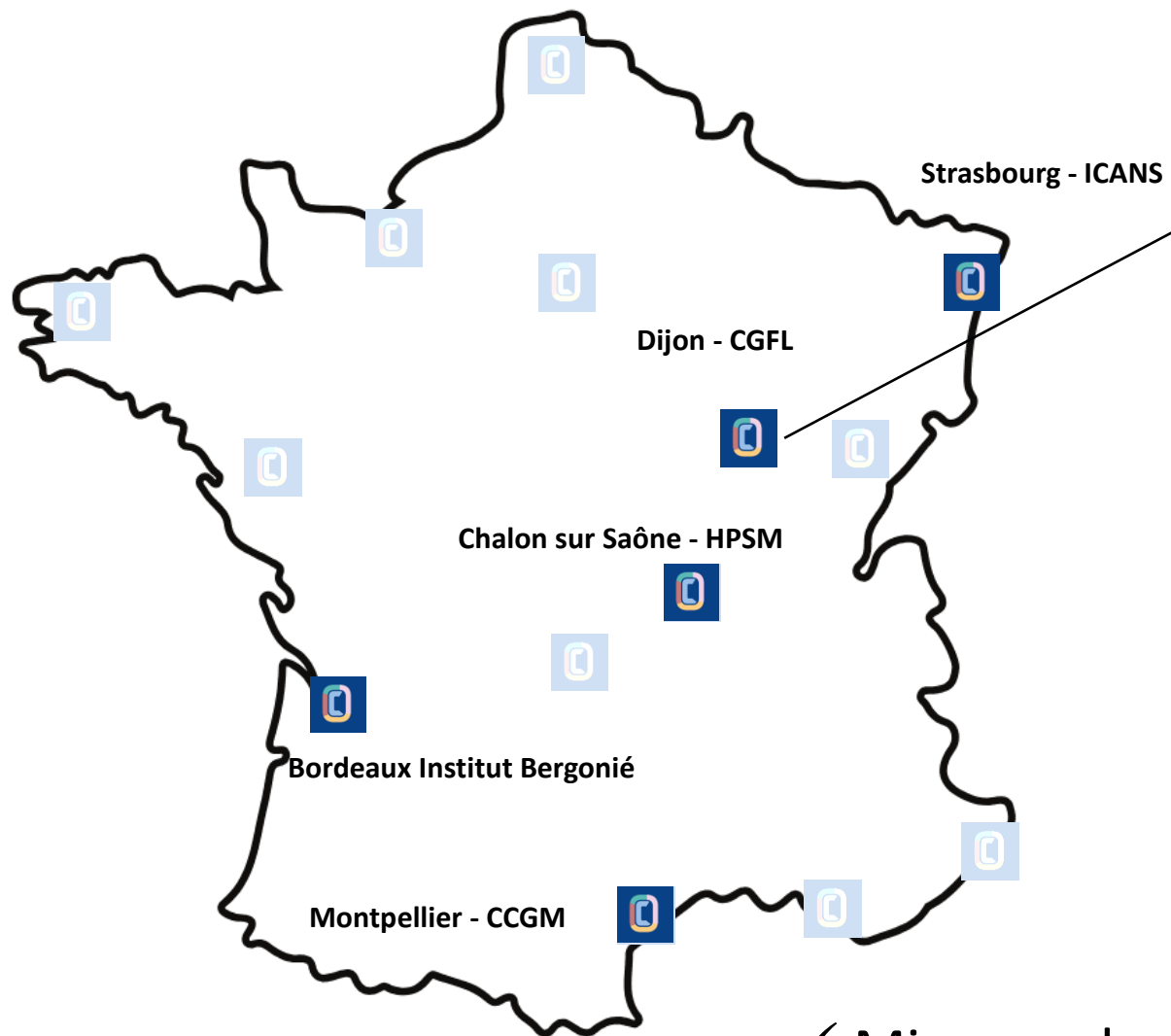
Notre objectif :
informer, assister et
accompagner !

OncoClic

est la première application à destination des professionnels de santé en Oncologie.

ACTIS oncology

est le 1^{er} moteur de recherche innovant à vision stratégique des essais cliniques.



✓ Mise en place d'une étude *Proof of concept* pour ACTIS oncology



Réunion Onco-gynécologie Bourgogne Franche Comté

Les essais cliniques au CGFL

Le 28/03/2023

Dr Jean-David Fumet, M.D, PhD