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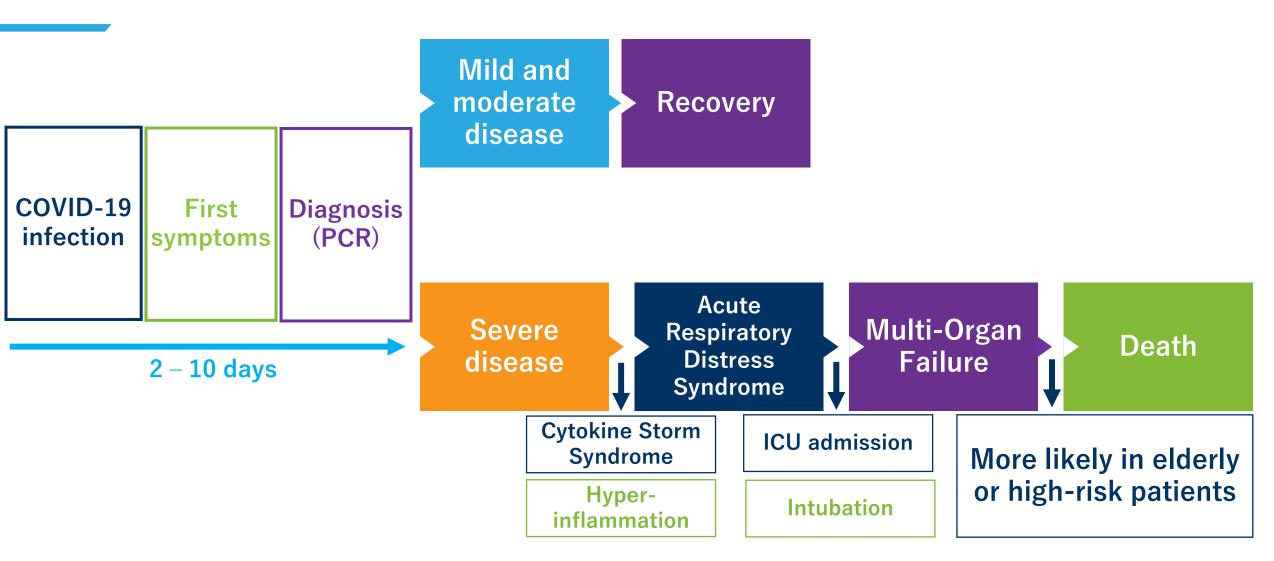
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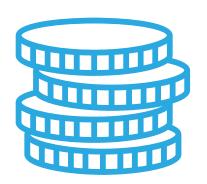


COVID-19 disease





ABX464: A promising candidate addressing inflammatory and COVID-19 markets



Total market size⁽¹⁾ in inflammatory diseases

greater than **USD 90 B**



Coming from the **proprietary** Abivax library of compounds, biased to **modulate RNA biogenesis** (>2200 molecules); Close collaboration with EVOTEC



Small molecule (quinoline), administered as an oral capsule (once a day)

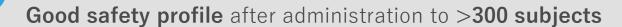


First-in-Class, novel mechanism of action: Selective upregulation of anti-inflammatory microRNA miR-124



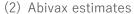
Market size^(1,2) for therapeutic (COVID-19)

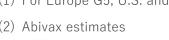
Very large Market



Anti-inflammatory effect confirmed in DSS mouse model of IBD as well as in Phase 2a induction and maintenance studies in ulcerative colitis. Phase 2b study in UC ongoing in 232 Patients, as well Phase 2a in rheumatoid arthritis in 60 patients

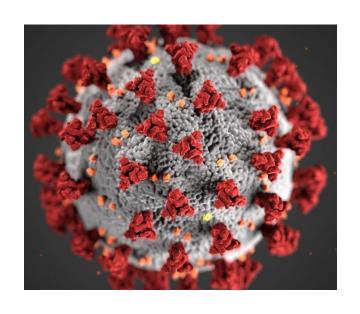


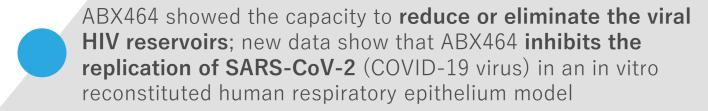




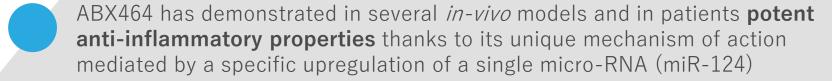
High medical need for novel safe and efficacious drugs in "classical" inflammatory diseases as well as Covid-19

ABX464 COVID-19 Development Rationale





COVID-19 infection can induce a **cytokine storm** (including increased MCP1, IL-1β, TNFα, IL-17, G-CSF and IL-6)*, leading to **acute respiratory distress syndrome** (ARDS), multiple organ failure and death



Abivax is conducting a **randomized**, **double-blind and placebo-controlled Phase 2b/3 clinical trial** in Europe with ABX464 in 1,034 COVID-19 patients – Clinical trial already fully approved in France

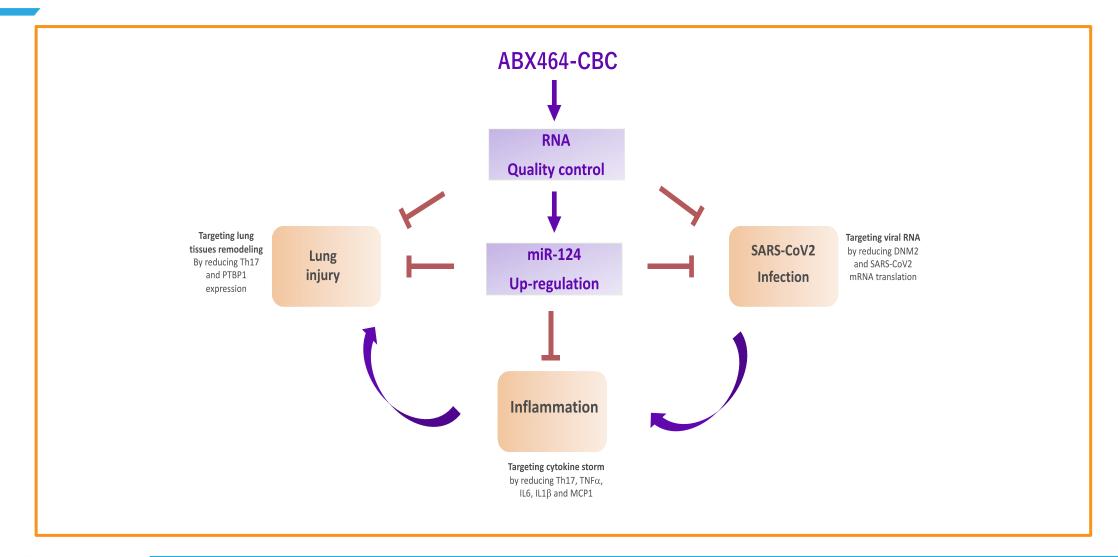
Good safety profile of ABX464 demonstrated in >300 volunteers and patients

Abivax has already **manufacturing capacities in place** (drug substance, finished product and packaging) to supply the investigational drug **for large clinical trials** as well as to ramp up quickly to **large scale commercial production**

^{*} The Lancet, March 16, 2020 Puja Mehta et al.

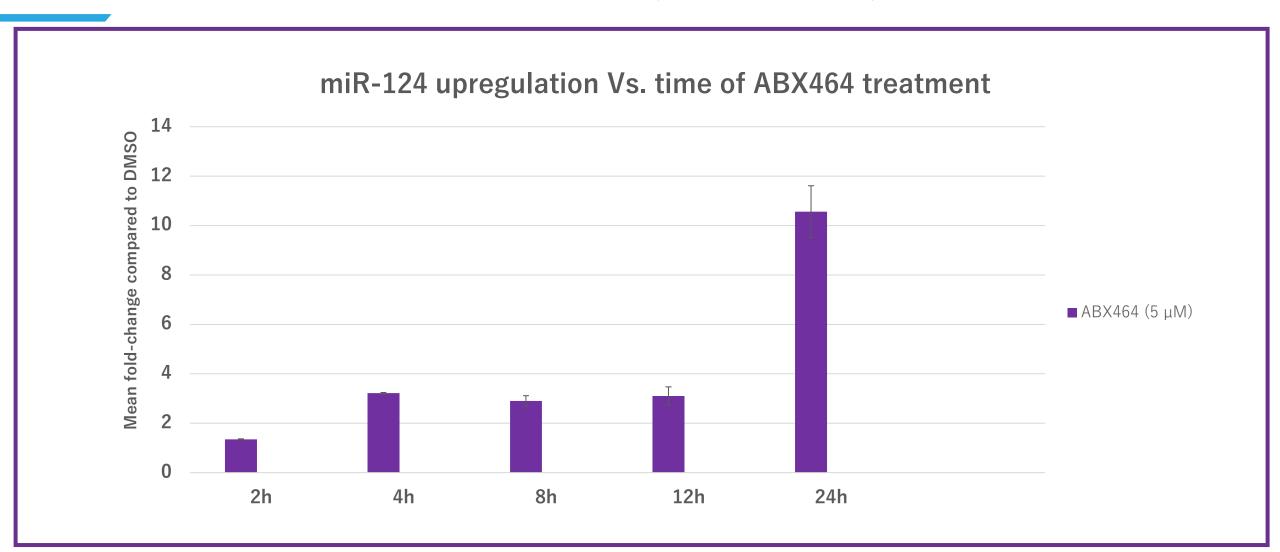


Rationale for testing ABX464 in patients infected with COVID-19





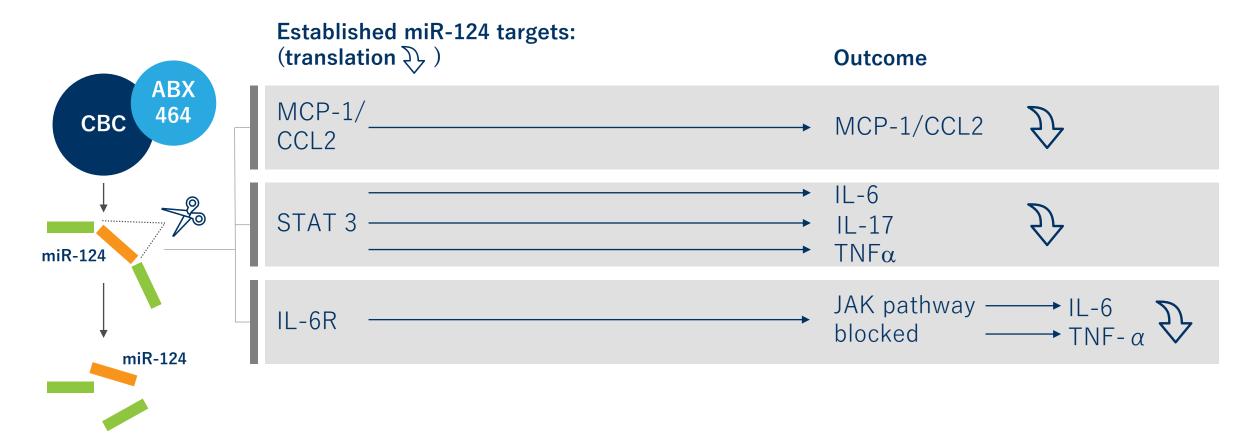
ABX464 specifically and rapidly upregulates miR-124 10-fold within 24 hours in human PBMCs (*in vitro* results)





ABX464 novel mechanism of action: Potent and specific upregulation of miR-124 leads to reduction of pro-inflammatory cytokines

Both systemic and local inflammatory sites





ABX464 reduced MCP1, IL-1 β , TNF α and IL-6 within 4 days of treatment of primary human monocyte-derived macrophages

Within four days of treatment ABX464 reduced relevant chemokines and cytokines in primary human monocyte-derived macrophages

MCP1 (-50 to -60%)

IL-6 (-20%)

TNFα (-25%)

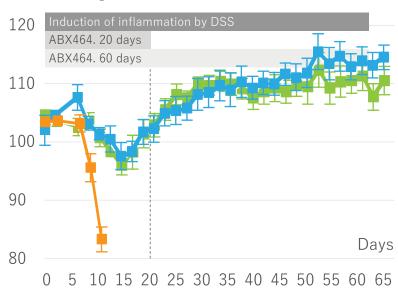
 $\begin{array}{c} IL-1\beta \\ (-25\%) \end{array}$



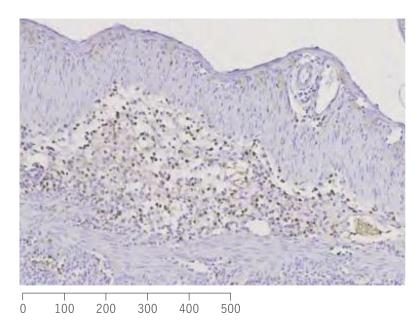
ABX464 showed efficacy in the DSS mouse model*

ABX464 protects mice from death in the DSS mouse model

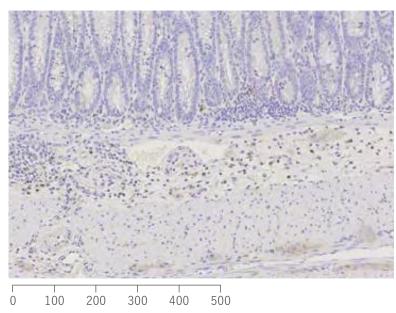
Relative weight (%)

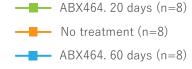


DSS without ABX464 leads to intestinal damage



ABX464 protects intestinal structure





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ABX464 reduced the expression of pro-inflammatory cytokines in colon tissue:

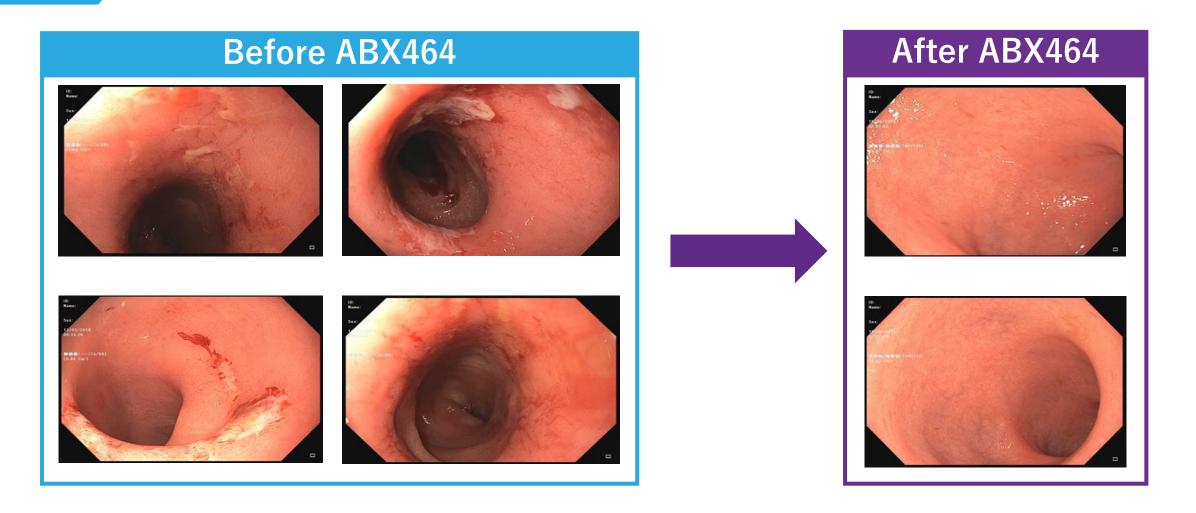
IL-6 (2x), TNF (7.5x) and MCP-1 (6x)

*Chebli et al, Nature Scientific Reports 7: 4860 (2017)



Tissue repair in an ABX464 treated UC patient

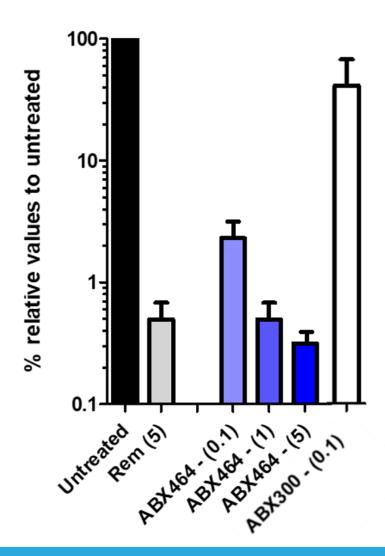
Courtesy of Prof. Severine Vermeire





Reduction of Covid-19 replication in an in vitro reconstituted human airway epithelial model

Infectious titrations TCID50 at 48 hours post infection





ABX464 showed a good safety profile during clinical development of the 50 mg dosage form

Safety profile consistent with previous and ongoing clinical studies

(>300 healthy volunteers and patients exposed to ABX464)



Overall: No deaths, no malignancies, no severe infections, no significant changes in the laboratory parameters including blood cell counts



No Serious Adverse Reactions, most AEs were of mild to moderate intensity





Most frequently reported AEs: Headache and epigastric pain; occurring mainly during the first days of treatment



Some patients are on continuous daily treatment with ABX464 for >2 years



European Phase 2/3 clinical trial miR-AGE: High-risk patients, PRIOR to respiratory distress

- > Early treatment of high-risk patients infected with COVID-19
- > Phase 2b/3 study, placebo-controlled and randomized
- ➤ Main objective: A Phase 2b/3, randomized, double blind, placebo-controlled study to evaluate the efficacy and the safety of ABX464 in treating inflammation and preventing acute respiratory failure in patients aged ≥65 and patients aged ≥18 with at least one additional risk factor who are infected with SARS-CoV-2 (the miR-AGE study).
- > Target population: hospitalized and non-hospitalized patients
- ➤ Main evaluation criterion: Absence of high-flow oxygen (>3 l/min), assisted ventilation (positive pressure or intubation) and/or death after 28 days
- > Treatment duration: 28 days
- > Preliminary sample size estimate: Placebo + SOC group: 344 patients, ABX464 + SOC group: 690 patients (2 to 1 randomization). Expected response rate; 75% on placebo, 83 % on ABX464 (alpha 0.05, beta 80%).
- > In total, 1,034 patients will be included in 50 European clinical study sites



ABX464 Supply available for COVID-19 clinical trials and scalable

French Manufacturers (Seqens / Delpharm / Creapharm)

Supplies available for miR-AGE study

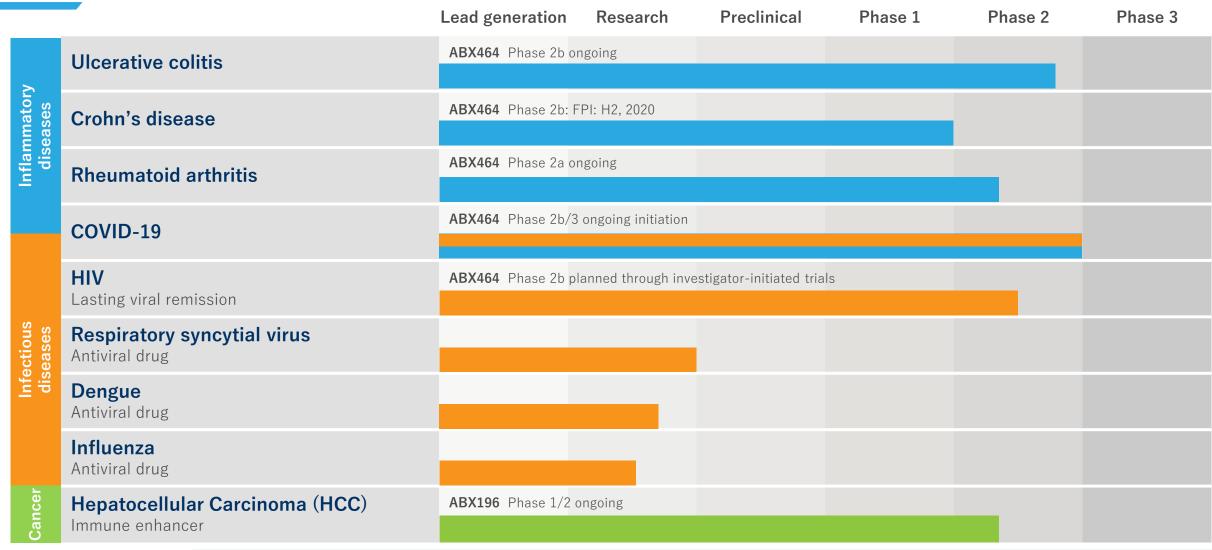
Current drug supplies allow the treatment of around 2 500 patients during 4 weeks / 50 mg daily

Current drug substance supplies allow treatment of 40 000-50 000 patients during 4 weeks / 50 mg daily

Process scale-up to millions of doses is doable within months



Abivax: A strong and diversified pipeline





Key company facts

Milestones



Founded in 2013 by Truffle Capital



Focus on chronic inflammatory diseases with ABX464 in Sept. 2018



Abivax went public in June 2015, raising € 57.7m

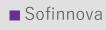


Acute viral and inflammatory diseases with ABX464 in May 2020



34%

€ 220m



■ Truffle Capital

- Board & management
- Incubator & founders
- Public

Shareholder structure¹ and market cap²

Location





Operations



Employees



Cash³ € 9.8m





- Undiluted as of 31.03.2020
- As of 12.05.2020 EOB
- 3) Actual December 2019



Highly experienced Executive Committee







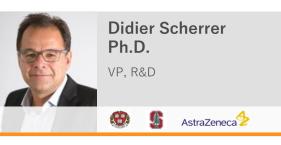


Jérôme Denis Ph.D. VP, Process Dev. & Manufacturing імало LYONBIOPOLE













Prof. Jamal Tazi Ph.D. VP. Research & Director of Cooperative Lab with CNRS



Competencies from discovery to global commercialization

