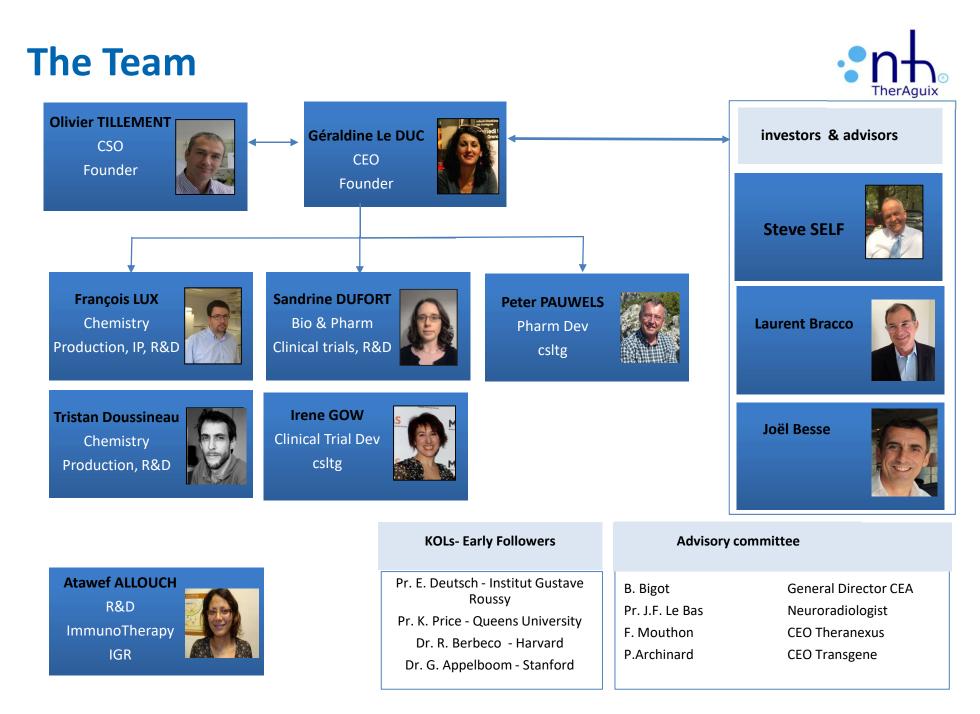


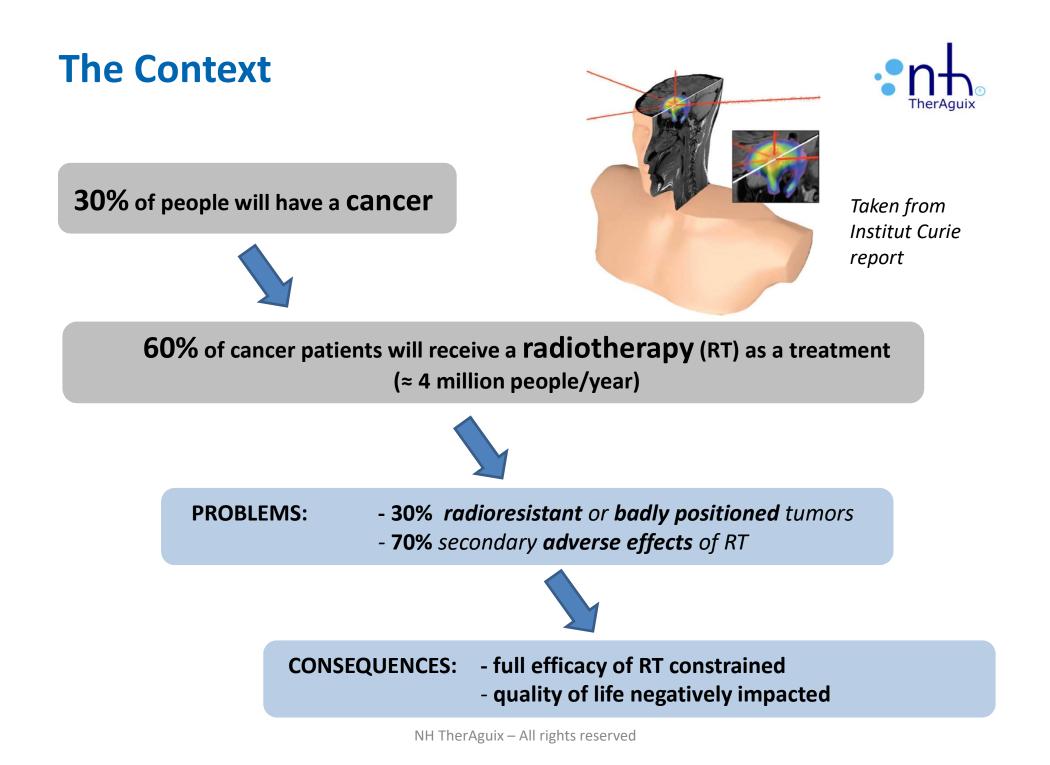
NH TherAguix

A Nanomedicine Company

Tristan Doussineau

<u>Contact:</u> Géraldine Leduc, CEO <u>leduc@nhtheraguix.com</u> + 33 (6) 87 12 10 40

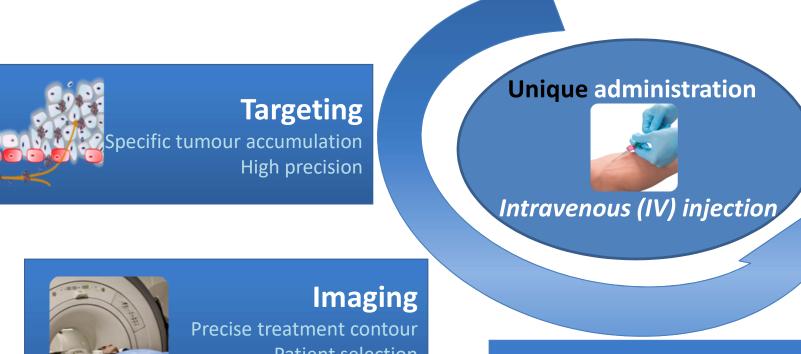




The AGulX[®] solution: a theranostic solution



See What You Target & Target What You See



Precise treatment contour Patient selection Personalized treatment



AGuIX: « Activation and Guidance of Irradiation by X-ray »

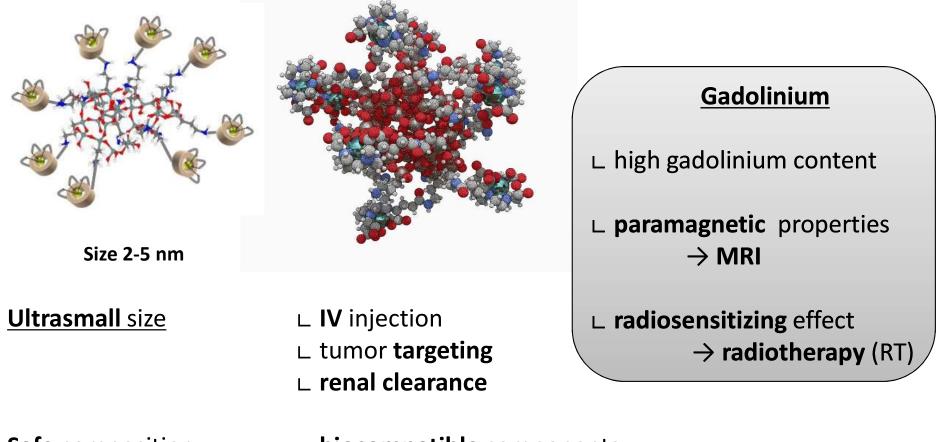
NH TherAguix – All rights reserved

The AGuIX[®] Technology

no drug delivery, passive targeting



Structure and composition of AGuIX[®] (7 brevets et 1 FTO) Polysiloxane + gadolinium cyclic chelates



Safe composition

L **biocompatible** components

Preclinical Proof of Concept (PoC)

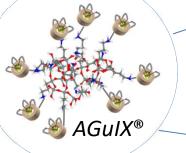


10 years of academic research



brain, head&neck, pancreas, lung, melanoma

In vivo MRI contrast uptake in tumour models



Regulatory toxicity (rats/monkeys) Scale-up and industrialization of the production

In vitro demonstration of radiosensitizing effects

O Tillement designed the AGuIX[®] *G Le Duc discovered the radiosensitizing effect*

- 10+ collaborations (Harvard, MIT, Yale, IGR, Stanford)
- 50+ publications
- 4 patents (5 +)
- 9-12 PhD students
- POC in 7 in vivo tumour models •

Le Duc G, Miladi I, Alric C, Mowat P, Bräuer-Krisch E, Bouchet A, Khalil E, Billotey C, Janier M, Lux F, Epicier T, Perriat P, Roux S, Tillement O. ACS Nano. 2011 Dec 27;5(12):9566-74

NANORAD Clinical Trial: A First-in-Human



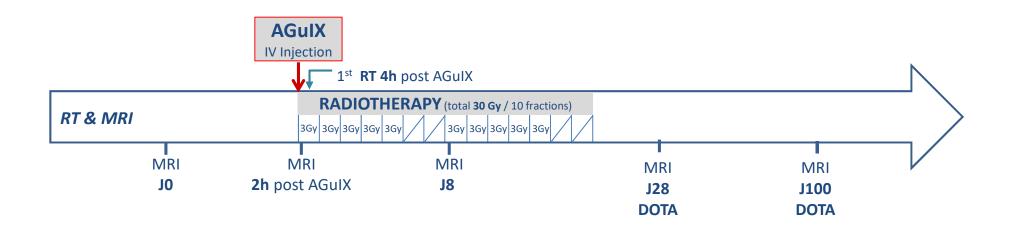
SponsorCHU Grenoble AlpesPIDr C. Verry , Radiotherapy DepartmentHead: Pr J. Balosso

Dose-escalation5 dose levels (n=3 patients)15, 30, 50, 75 and 100 mg/kg



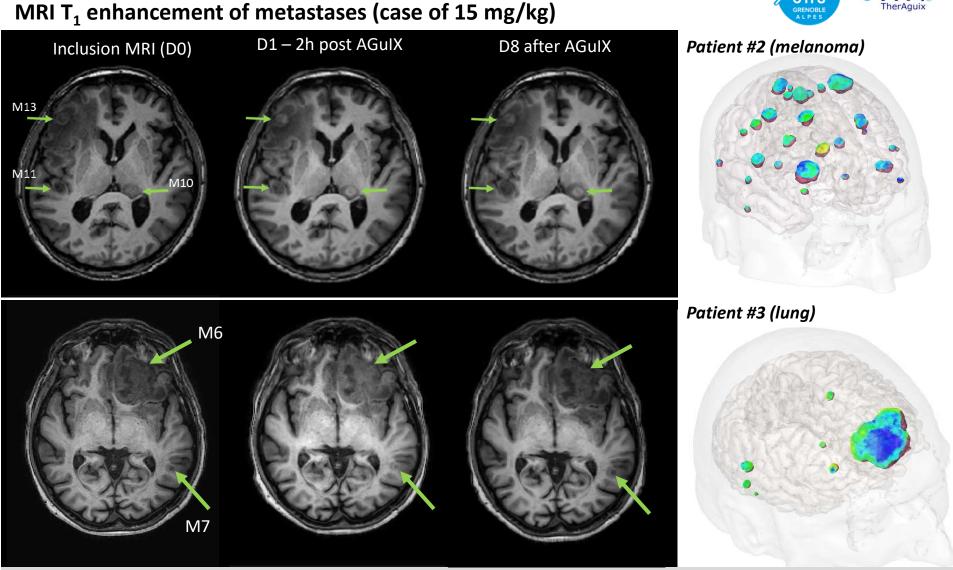
Inclusion criteria

Multiple BM ineligible for local treatment by surgery or stereotactic radiation Primary cancer : Melanoma, Lung , Breast, Colon 25 % of cancer patients, Life expectancy < 4 months



Tumor Targeting





→ good AGuIX uptake, i.e. targeting, for every tumor type even at the lowest administrated dose
→ persistent accumulation of the AGuIX[®] product up to 1 week

NANORAD Phase I on brain metastases Intermediate results after 9 patients (15 patients done – 12 evaluated)



15 mg/kg	30 mg/kg	50 mg/kg	75 mg/kg	100 mg/kg
n=3	n=3	n= 3		



No adverse effects due to the injection of the drug (even minor) Fast blood half life and renal elimination

First proof of contrast uptake

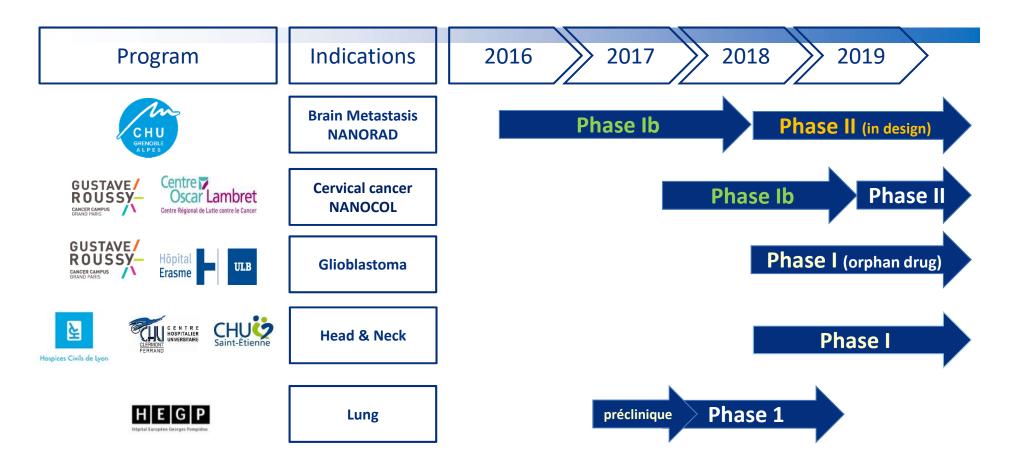
Contrast uptake for 9/9 patients (15 - 30 – 50 - 75 mg/kg) (melanoma, NSCLC, Colon carcinoma) Remanence of the contrast enhancement 8 days after injection in tumour tissues

Therapeutic response

Response to the treatment (WBRT + AGuIX) Clinical benefit Correlation between AGuIX contrast uptake and tumour response Dose effect

Pipeline of clinical trials





Summary



