

Marelise Eekhoff (Amsterdam)



Alex Bullock (Oxford)



Richard Keen (London)







Bernard Smilde Amsterdam UMC



Clemens Stockklausner (Garmisch, Germany)









(Boston)



Dong Liu (AstraZeneca, US)











Programme

- -Introduction, STOPFOP executive centers
- -What is Saracatinib and how does it work?
- -General overview of the STOPFOP trial
- -STOPFOP in the UK

-Q&A

Marelise Eekhoff, MD, PhD

Alex Bullock, PhD

Bernard Smilde, MD

Richard Keen, MD, PhD









Clinical sites for STOPFOP trial

In Europe:

-Amsterdam (The Netherlands)

-Garmisch Partenkirchen (Germany)

-London (United Kingdom)







About Amsterdam

Marelise Eekhoff, PI Bernard Smilde

Internal Medicine Section Endocrinology, Amsterdam University Medical Centers - VUmc Amsterdam Bone Center, The Netherlands

Amsterdam FOP team

FOP.Amsterdam@vumc.nl









Amsterdam UMC

- University hospital in the Netherlands with dedicated FOP research team
- Multidisciplinary centre treatment with multiple medical specialities with vast experience with FOP patients
- Easily accessible by car, train (and plane)

(Airport Amsterdam Schiphol is only 5 minutes by train; hotel next to the hospital)











FOP team members







Amsterdam, always fun to visit





Rijksmuseum

Zandvoort aan Zee









COVID-19 impact

Successfully continued to provide care to all FOP trial patients during COVID-19 crisis

Access to multiple treatment locations (hospital as well out-patient clinics) to create a safe environment

Strict hospital and government measures in place to control spreading













Our way of working

- -Cooperation, and safety
- -International referral center
- Diagnosis and follow-up
- Imaging center : [18F] NaF PET/CT
- Genetic center
- -Trials in FOP: -STOPFOP is open















Alex Bullock

What is Saracatinib and how does it work?



University of Oxford

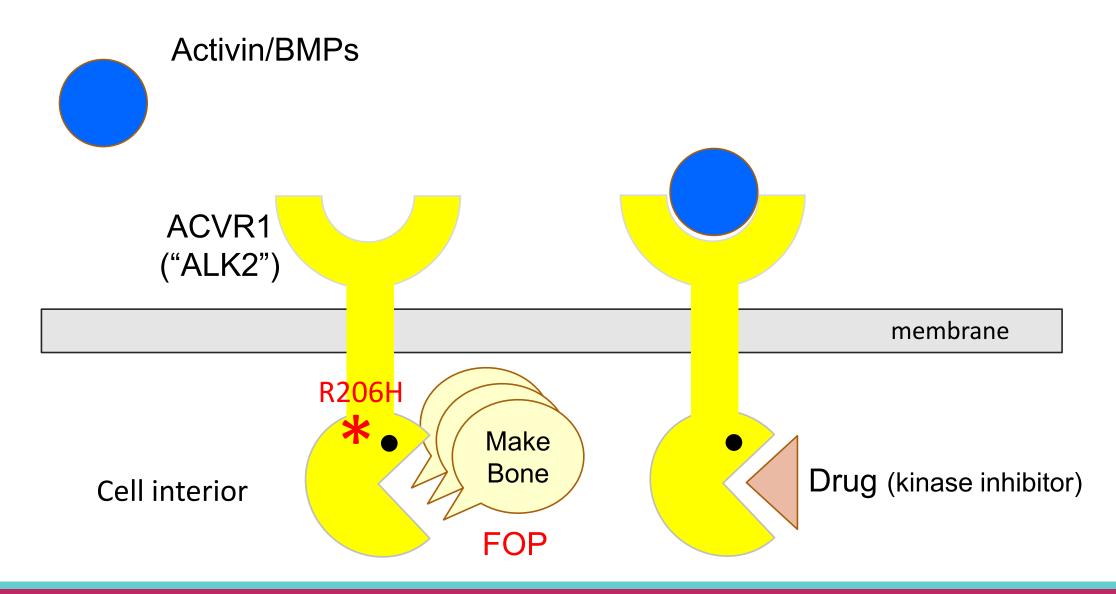






Our strategy to stop FOP

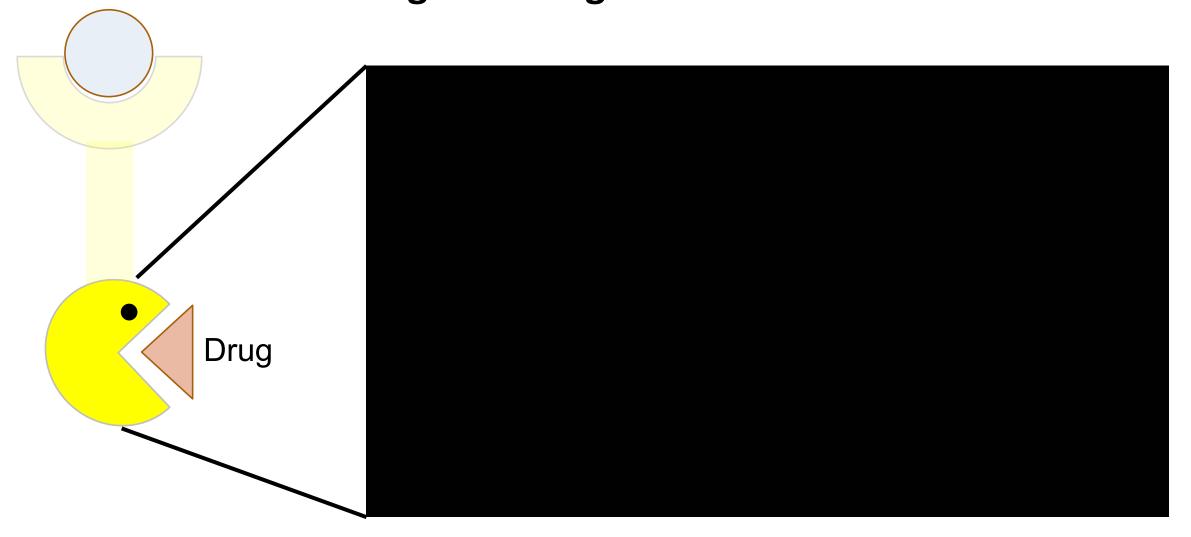






Movie showing how drugs can bind ACVR1







Drug discovery for ACVR1...does the shoe fit Cinderella?





STOPFOP

Searching for the best drug for the FOP protein



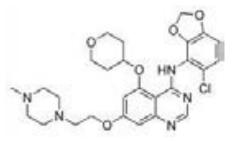
ACVR1

("ALK2")

receptor

Test each drug for

binding to FOP protein



Saracatinib (AZD0530)

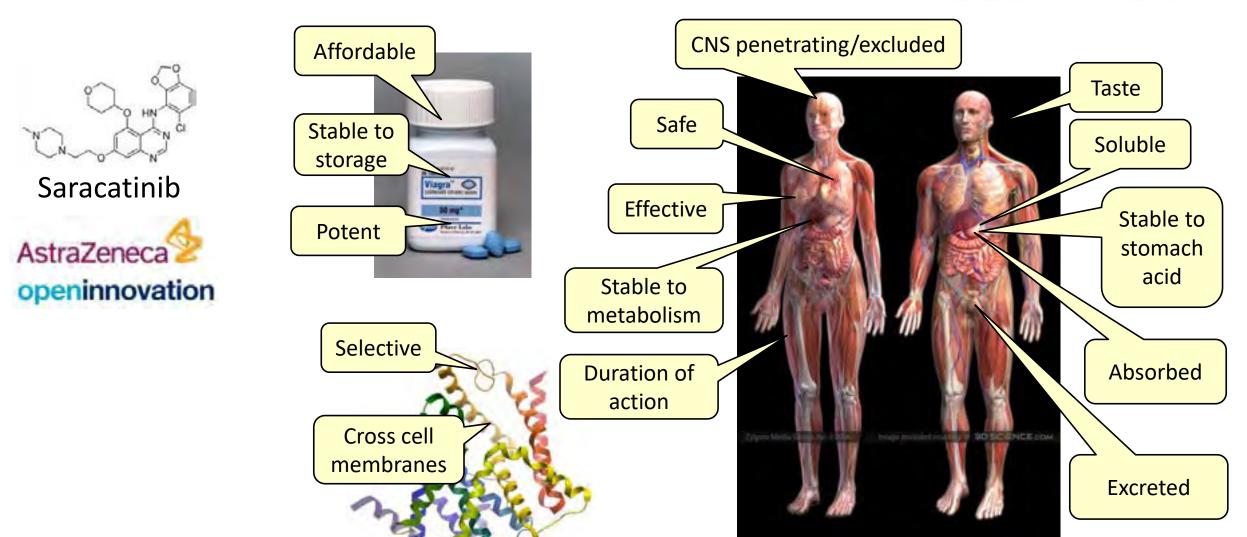




Ellie Williams, Oxford

Many Factors to Drug Development Challenge





Saracatinib stops FOP in the R206H mouse model



1. Disease Prevention *

Treated with

Saracatinib

FOP stopped

No Drug

Unwanted bone



Dong-Dong Xia Paul Yu (Harvard)

2. Using drug to allow surgery of FOP

Before surgery



6 weeks after surgery

Surgery (no drug)



Unwanted bone regrows







Bone regrowth stopped

* Normal bone growth unaffected (bone length and bone density)







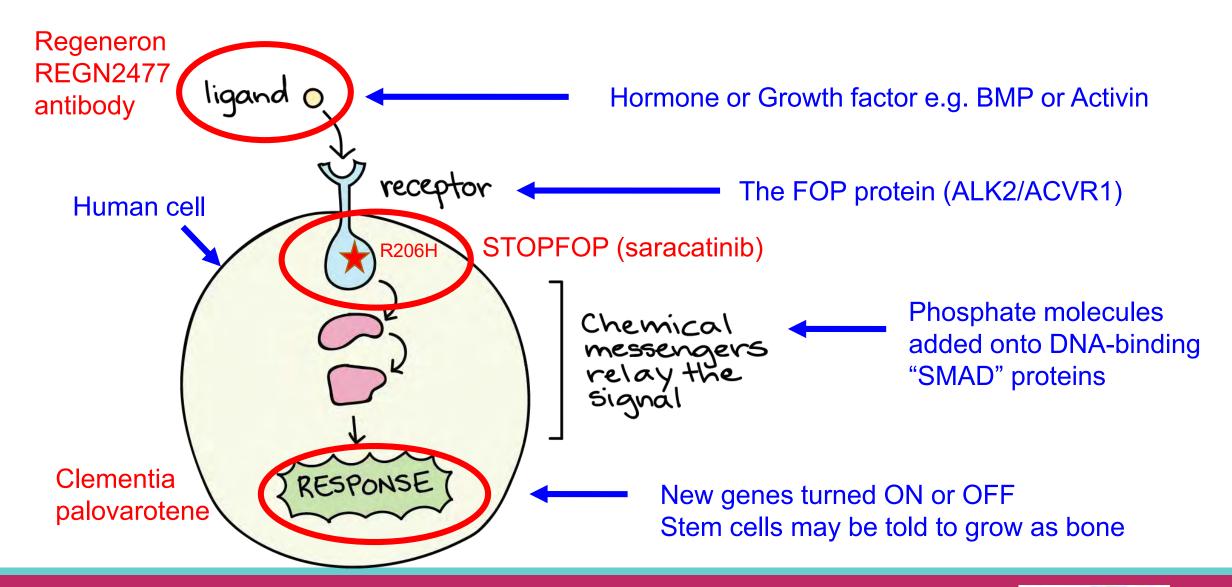
History of Saracatinib in clinical trials (>700 patients) STOPFOP



Dose		Disease	Clinical trial phase	Observations
	grams per day 1.000	Healthy volunteers	phase 1	Maximum tolerated single dose
	0.175	Cancer	phase 2, 3	Treatment for 4-6 weeks with chemotherapy >600 patients
	0.125	Alzhiemer's disease LAM lung disease	phase 2	Treatment for 9-12 months >100 patients (100-125 mg dose)
	0.100	STOPFOP	phase 2	New clinical trial
V				

Different drugs target different steps in FOP biology





Grant awarded for STOPFOP phase 2A clinical trial in FOP







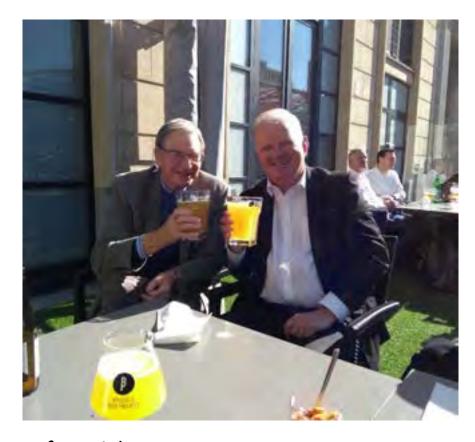
- €1 Million for 3 year clinical trial
- □ AstraZeneca supplying the drug (€1 Million)
- ☐ Clinical trial to be designed and run by the academic team



(EU offices, Brussels) Left to right:
Dr Richard Keen (FOP clinician, London UK)
Dr David Hayes (AstraZeneca, USA)
Dr Marelise Eekhoff (FOP clinician, Amsterdam)
Dr Clemens Stockklausner (FOP clinician, Germany)
Dr Alex Bullock (FOP researcher, Oxford UK)

Drinks in Brussels after our grant "interview"





Left to right:
Prof Jim Triffitt (retired researcher, Oxford UK)
Dr Richard Keen (FOP clinician, London UK)



Left to right:
Dr Marelise Eekhoff (FOP clinician, Amsterdam)
Dr Clemens Stockklausner (FOP clinician, Germany)





STOPFOP

general overview

BERNARD SMILDE, MD







STOPFOP

- Saracatinib Trial TO Prevent FOP

- Investigator initiated
- Sponsored by EU: Innovative Medicines Initative













- Partners
- Consortium of several academic centers and AstraZeneca
- Stakeholders board
 - IFOPA
 - National patients organisations of The Netherlands, United Kingdom, Germany, France, Italy and Sweden

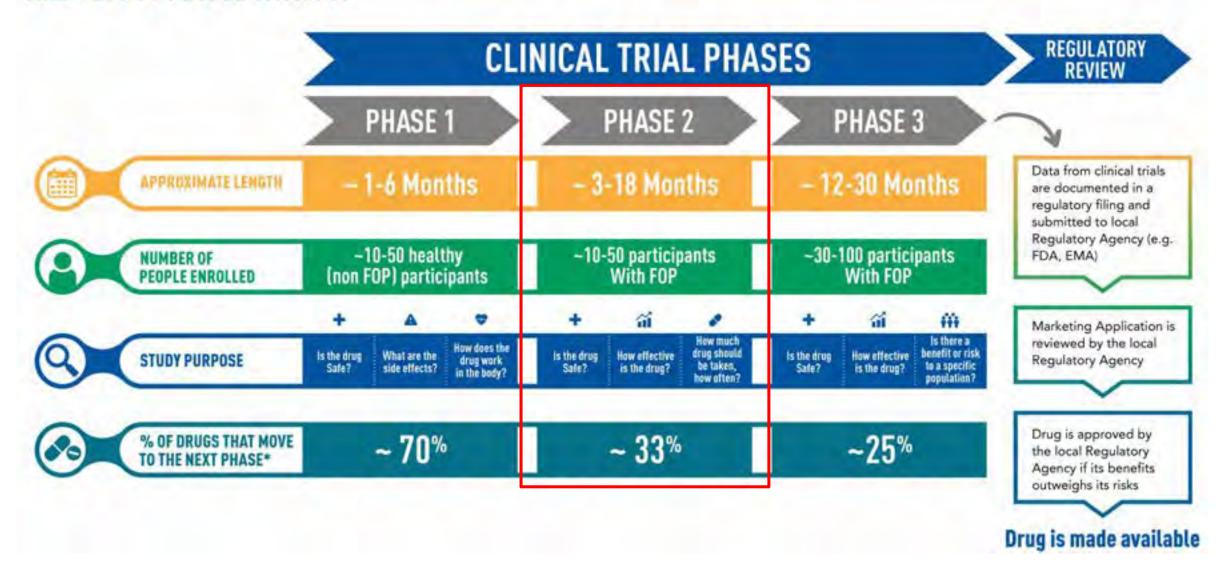




HOW A DRUG MOVES THROUGH CLINICAL TRIALS



AND GETS TO PEOPLE WITH FOP







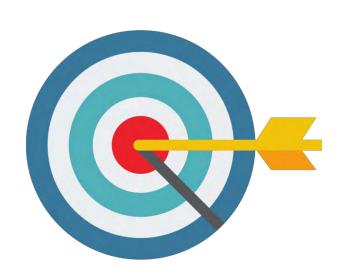


Aim

To investigate:

- The effectiveness of Saracatinib on FOP
- PET-CT
- Questionnaires/diary
- The safety of Saractinib in people with FOP
 - Side-effects
 - Blood results

In order to discover an effective medicine to stop FOP











Locations

3 clinical sites

- Netherlands (Amsterdam)
- Germany (Garmisch-Partenkirchen)
- United Kingdom (London)

Participation from patients outside of these countries is possible

- European Union
- Case-by-case basis









Study Design

- 6 month Randomised controlled trial
- 50% chance of treatment with Saracatinib
- 50% chance of treatment with placebo (fake drug)
- 12 month open label extension phase
- 100% chance of treatment with Saracatinib
- Saracatinib can be continued after study period









Study Design

- -10 Visits in 18 months
- ~1 visit / 3 months
- Starts with eligibility visit

Daily oral administration of Saracatinib

- Medication can be crushed
- Diary
- Blood and urine collection
- Pulmonary and cardiac tests
- Questionnaires
- PET-CT











Who are we looking for?

- 20 FOP patients 18y-65y
 - Classic (R206H) mutation
 - Willing and able to participate (e.g. fit in CT-scanner)
 - Little other health issues











Contact

- www.STOPFOP.com
 - Contact form

- Email: <u>b.smilde@amsterdamumc.nl</u>

- Email UK: <u>richard.keen1@nhs.net</u>





STOPFOP Amsterdam team acknowledgements



Roel Wouters Ethicist



Gracielle Schutjens Monitor



Natasja van Schoor Statistician



EU helpdesk team Amsterdam UMC VU







STOPFOP in the UK

Richard Keen









What will participation at RNOH involve?

Professor Richard Keen BSc PhD FRCP
Consultant in Metabolic Bone Disease
Royal National Orthopaedic Hospital, Stanmore

richard.keen1@nhs.net





The RNOH is an ideal location

Good access to motorway networks-M25/M1

Nearby airports-Heathrow, Luton, Stanstead

Local hotels

Free car parking on-site!







Stanmore-ideal for fun days out









Green Hospital-Covid negative









Team experienced in FOP clinical care and research







Down Town after the PET scan











Making life as easy and stress free as possible

Work alongside routine NHS appointments where possible

F2F reviews vs Virtual clinics - the "new normal"

Continuity of care-established clinical and research teams

Helping access additional funding/support





Questions?



