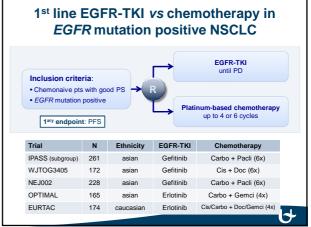
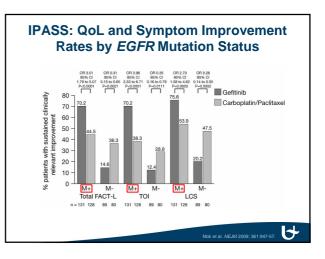
# Hermes project: implementing *EGFR* mutation analysis in clincal care in Antwerp

#### E. De Droogh, A. Janssens & A. Lefebure





	1 <sup>st</sup> line EGFR-TKI <i>vs</i> chemotherapy in <i>EGFR</i> mutation positive NSCLC				
	Trial	RR '	PFS '	HR PFS	
	IPASS (subgroup) 1	71% vs 47%	9.6 m <i>v</i> s 6.3 m	0.48	
	WJTOG3405 <sup>2</sup>	62% vs 31%	9.2 m <i>v</i> s 6.3 m	0.49	
	NEJ002 <sup>3</sup>	74% vs 31%	10.8 m <i>vs</i> 5.4 m	0.30	
	OPTIMAL <sup>4</sup>	83% vs 36%	14.7 m <i>vs</i> 4.6 m	0.16	
	EURTAC <sup>5</sup>	58% vs 15%	9.7 m <i>vs</i> 5.2 m	0.37	
				* all <i>P</i> <0.05	
2. Mitsud	al. NEJM 2009; vol 361:947-57. Iomi ea. Lancet Oncol 2010; vol 11:				
4.	et al. J Clin Oncol 2011; vol 29 (sup Zhou et al. J Clin Oncol 2011; vol 2 tosell et al. J Clin Oncol 2011; vol 2	9 (suppl): 7520.			



## EGFR-TKI as 1<sup>st</sup>-line treatment for NSCLC with activating *EGFR* mutations?

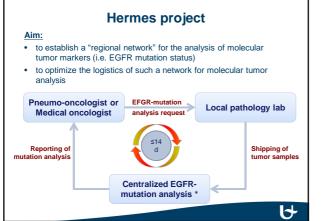
Pro	Contra
Improved progression free survival	Logistics of EGFR mutation analysis
Improved response rate	No improved overall survival
Improved QoL and symptom control	
Favourable toxicity profile	
Following 1 <sup>st</sup> line chemotherapy ±1/3 of pts receive no further treatment	
→ gefitinib is the new stand treatment for NSCLC with	lard of care for the 1 <sup>st</sup> -line h activating <i>EGFR</i> mutations

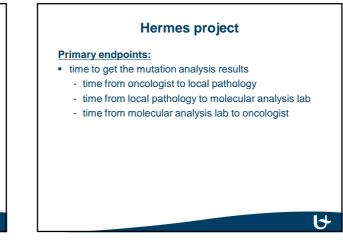
### Hermes project

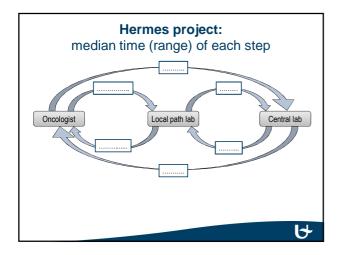
#### Aims:

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- to establish a "regional network" for the analysis of molecular tumor markers (i.e. EGFR mutation status)
- to optimize the logistics of such a network for molecular tumor analysis:
  - Ideally the results should be available in all patients within 2 weeks of the analysis request.
- to obtain an epidemiologic description of the molecular tumor characteristics (i.e. EGFR mutation status) in Antwerp







#### **Hermes project**

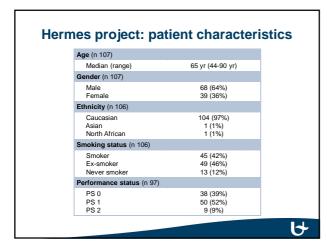
#### Primary endpoints:

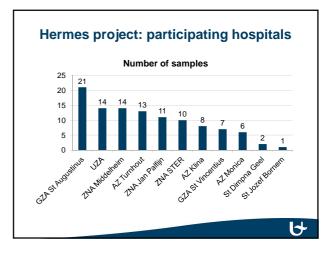
- time to get the mutation analysis results
  - time from oncologist to local pathology
  - time from local pathology to molecular analysis lab
- time from molecular analysis lab to oncologist

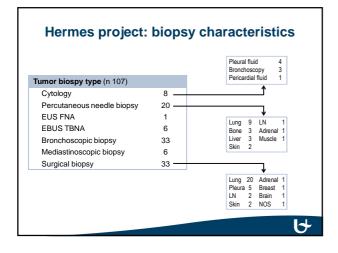
#### Secondary endpoints:

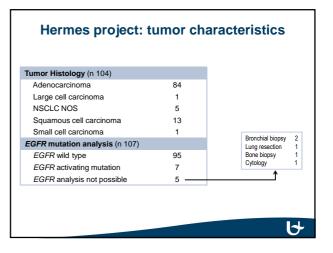
- epidemiologic description of the molecular tumor characteristics (I;e. EGFR mutation status) in Antwerp
- "exploratory analysis" of the relationship between the pulmonary function and incidence of EGFR mutation

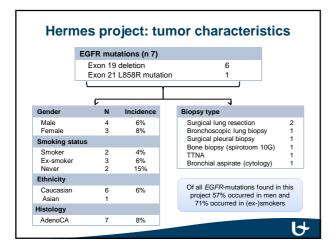


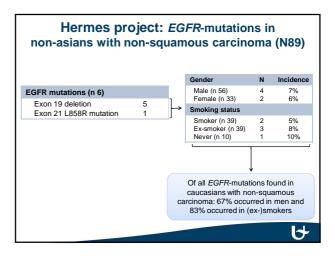


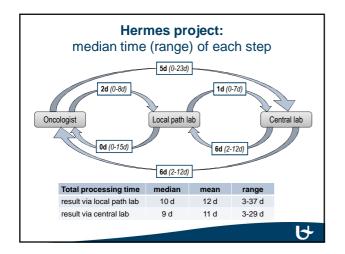


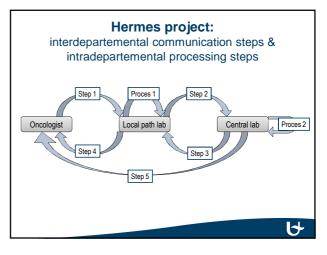


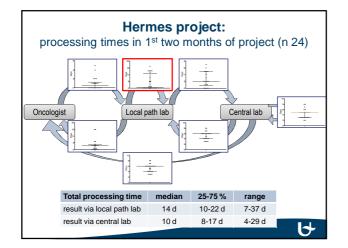


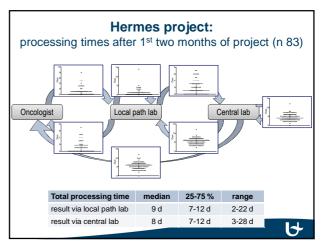


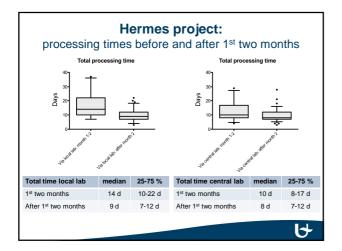


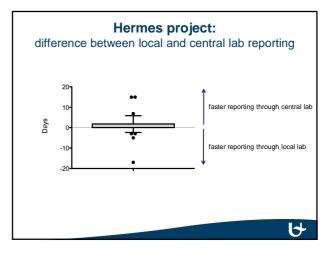


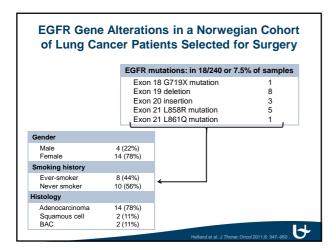


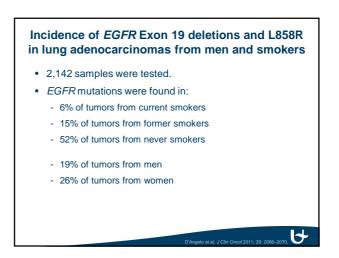


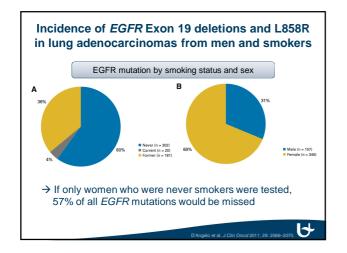


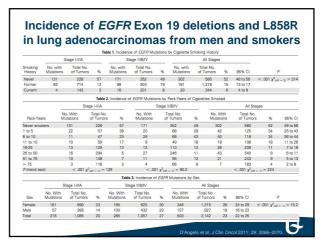


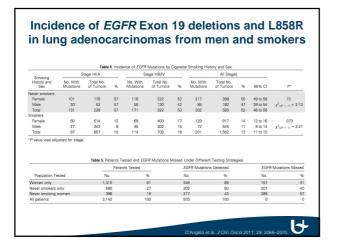




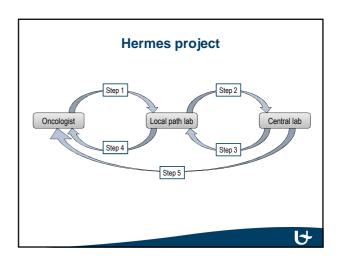


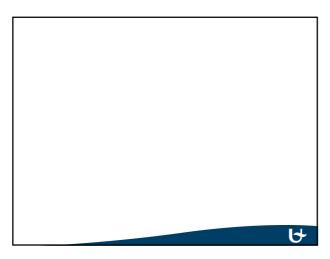


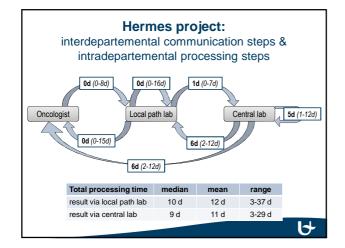


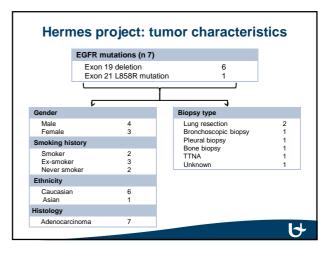












umor biospy type (n 107)	
Cytology	8
Percutaneous needle biopsy	20
EUS FNA	1
EBUS TBNA	6
Bronchoscopic biopsy	33
Mediastinoscopic biopsy	6
Surgical biopsy	33
umor Histology (n 104)	
Adenocarcinoma	84
Large cell carcinoma	1
NSCLC NOS	5
Squamous cell carcinoma	13
Small cell carcinoma	1

