### MELANOMA SAMPLES

**Fluorescence in situ hybridization (FISH) with BRAF (RP11-129G9 BAC)/chromosome 7 centromere probes**
- 141 melanoma samples available on TMA (140 patients)
- 16 not interpretable because of lack of tumor on TMA sections, high lymphocytic infiltration or high background fluorescent signals.
- → 125 samples with interpretable results
  - 59 BRAF WT
  - 56 BRAF V600E
  - 10 with another BRAF exon 15 mutations (V600K n=7, K601E n=2, 600-601delinsE n=1).
- → 44 samples analyzed with another BRAF probe (SureFISH 7q34 BRAF)

**Single nucleotide polymorphism (SNP) array analysis**
- 18 frozen samples available
- → 17 samples with FISH results
  - → 1 sample with non interpretable FISH result

**Percentage of BRAF V600E mutation obtained by pyrosequencing**
- 475 samples from 428 patients. All consecutive samples with stage III or IV melanomas received in Ambroise Paré hospital pathology department from March 2010 to May 2014
- → 368 samples with at least 80% of tumor cells of whom 142 with BRAF V600E

### MELANOCYTIC NEVI (dermic and/or junctional)

**FISH with BRAF (RP11-129G9 BAC)/chromosome 7 centromere probes and immunohistochemistry (IHC) with VE1 antibody**
- → 42 samples from 42 patients

**IHC**
- → 42 samples interpretable
  - 9 BRAF p.V600E negative
  - 33 BRAF p.V600E positive

**FISH analysis**
- → 33 samples with interpretable FSIH results
  - 6 BRAF p.V600E negative
  - 27 BRAF p.V600E positive
  - 9 FISH not interpretable because of lack of tumor on TMA sections