

THE ONCOGENETICS RESEARCH LABORATORY

Granted by the French Ministry of Research.

- ✓ Search for non BRCA genes involved in familial breast cancer.
- ✓ Role of phytoestrogens on breast cancer and on BRCA1 mutated breast cancers.
- ✓ Theranostics in oncology.

THE ONCOGENETICS BIO-INFORMATICS

The « Zenon » software developed in partnership with Solusience Ltd.

Zenon makes links between clinics, all molecular steps at the laboratory for high standard quality in laboratory good practices.



The oncogenetics team at the CJP



Centre de Lutte **contre le Cancer de la Région d'Auvergne**

58 rue Montalembert – B.P. 392 – 63011 Clermont-Ferrand Cedex 1 – France
Tél. 00 33 (0)4 73 27 80 80 - Fax 00 33 (0)4 73 26 34 51
internet : www.cjp.fr

DEPARTMENT OF ONCOGENETICS

Mail : lom@cjp.fr

Fax : 00 33 (0)4 73 27 80 42

Phone : 00 33 (0)4 73 27 80 50

WHAT IS ONCOGENETICS ?

Medical care and diagnosis of patients and their family with an hereditary risk of cancer (germ-line mutations).

DEVELOPMENT OF ONCOGENETICS ACTIVITY IN FRANCE

Pioneered in France in 1988 at the Centre Jean Perrin in Clermont-Ferrand.

French cooperative national network in 1991.

First grants from the Health Ministry in 2002.

THE ONCOGENETICS DEPARTMENT

Head of department: Pr. Yves Jean BIGNON

- medical consultation (YJ Bignon): 6 people
- laboratory diagnosis (N. Uhrhammer): 8 people + students
- research laboratory (D. Bernard-Gallon): 6 people + students
- bio-informatics (F. Kwiatkowski): 3 people + students

200 publications in peer review journals, 200 conferences, 400 communications in scientific meetings, 2 international patents, 1st French book on oncogenetics.

THE ONCOGENETICS CHAIN CONCEPT BASED ON

- ✓ Multidisciplinary
- ✓ From :
 - ◆ One main highly specialized clinics
 - ◆ To a tight linked central molecular genetic laboratory
 - ◆ To networking clinics
 - ◆ Through dedicated bio-informatics links
- ✓ Developed in France, Algeria, Morocco, Romania, Tunisia...

MISSIONS OF THE ONCOGENETICS DEPARTMENT

- ✓ Secondary prevention in hereditary high-risk populations
- ✓ Early detection of cancer to improve prognosis
- ✓ Personalized medical cares
- ✓ Innovation in diagnosis
- ✓ Research & development in hereditary breast cancers

THE ONCOGENETICS CONSULTATION

Granted by the National Cancer Institute.

- ✓ More than 2 600 families in 2008.
- ✓ 600-700 consultations per year.

THE ONCOGENETICS DIAGNOSTIC LABORATORY

Granted by the French National Cancer Institute (INCA), agreement in 2001 & 2008.

- ✓ Molecular diagnosis for:
 - ◆ BRCA1 & BRCA2 genes
 - ◆ MLH1, MSH2, MSH6 genes
 - ◆ APC, MYH genes
 - ◆ WRN, LMNA genes
 - ◆ Other genes on demand
- ✓ High through put genotyping platform: GS-FLX Roche (454), PCR automats, RTQ-PCR (Taqman 7900), Tecan robots

