

Chann LAGADEC

Date of Birth : August 11th, 1979

Place of Birth : Ploërmel, France

Citizenship : France

Marital Status : Married, Two children

Business Address :

INSERM U908

Growth factor signaling in breast cancer,

Functional proteomic

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Education and Degrees

- **Nov 2012 – Present:** Researcher/Chargé de Recherche INSERM, **INSERM Institute U908**,
Lille, Growth Factors signaling in breast cancer, Functional proteomic.
- **2011 - 2012:** Assistant Researcher Biologist, **David Geffen School of Medicine at UCLA**,
Department of Radiation Oncology - Division of Molecular and Cellular Oncology,
University of California, Los Angeles (UCLA).
- **2007 - 2011:** Postdoctoral fellow, **David Geffen School of Medicine at UCLA**, Department of
Radiation Oncology - Division of Molecular and Cellular Oncology, University of
California, Los Angeles (UCLA), Mentor: Frank Pajonk, Associate Professor, MD,
PhD

- ♦ **2003 - 2007**: Ph.D student « Laboratory of Growth Factors Signaling in Breast Cancer, Functional Proteomics», INSERM ERI8 (JE 2488), **University of Lille (USTL)**, France.

Title: “Incidence of TrkA overexpression on breast cancer cellule growth”.

Supervisor: Xuefen Le Bourhis, Professor, MD, PhD
- ♦ **2002 - 2003** : Master thesis « Biological development laboratory», **University of Lille (USTL)**, France
- ♦ **2000 - 2002** : Master’s degree in Biology, **University of Lille (USTL)**, France
- ♦ **1997 - 2000** : Intensive university level preparation course for the nationwide competitive entrance exams to French engineering schools (“Classes préparatoires”) Biology – Chemistry – Physic – Earth science (BCPST), **Lycée Chaptal, Paris**, France

Education and Degrees

Faculty member, Biomedical Physic Interdepartmental Graduate Program at UCLA (2012)

Supervision of student research (UCLA)

♦ ***Undergraduate supervision:***

Steven He (2008), Polin Nikolay (2008-2010), Carmen Dekmezian (2009-2011), Joseph Behjat (2010-2011), Aaron Lulla (2011), Lucile Bouché (2011), Mabel Chan (2012), Justine Lengrand (Feb to July 2013), Justine Bailleul (June 2013).

♦ ***Medical Student supervision:***

Malcom Mattes (2008), Patrick Evers (2009-2010).

- *University Teaching Activity:*

- Master Biology-Health – Oncology, Institut Gustave Roussy, 2013, 3h
- Master Biology-Health, University Lille 1 and Lille 2, 2013, 1h
- Spring 2010: « Biomedical Physics Interdepartmental Graduate Program » Seminar (Master Degree), David Geffen School of Medicine at UCLA, 3h
- Resident Radiobiology Teaching, Radiation oncology department, David Geffen School of Medicine at UCLA, 1h

- *Invited presentation:*

Cancer Stem Cell Imaging - Tracking the needle in the haystack. Post-Congress Symposium of the 3rd World Molecular Imaging Congress, September 13-14, 2010 in Taipei, Taiwan

- *Oral presentation:*

Lagadec C., Vlashi E., Della Donna L., Mattes M., Nikolay P., McBride W., Pajonk F., Low proteasome activity as a means to track and target breast cancer stem cells *in-vivo*. *Annual Meeting of American Association of Cancer Research - Denver*, Abstract 4793, April 2009.

Awards

- Wolfsberg-meeting Poster Award 2013, 13th International Wolfsberg Meeting 2013 on Molecular Radiation Biology/Oncology, June 2013,
- AACR-Susan G. Komen for the Cure Scholar in training Award, AACR 101st annual meeting, April 2010,
- AACR-Susan G. Komen for the Cure Scholar Award, San Antonio Breast Cancer Symposium, December 2009,
- Novartis Oncology Basic Science Scholars Award, San Antonio Breast Cancer Symposium, December 2008,

- Scholar-In-Training Travel Award, Radiation Research Society, September 2008,
- Scholar-In-Training Travel Award, *Annual congress of SFEAP*, October 2006,
- Scholar-In-Training Travel Award, SFEAP young researcher symposium, October 2005,
- Scholar-In-Training Travel Award, SFEAP young researcher symposium, October 2004,
- Best poster presentation award, Annual conference of the doctoral school of Biology and Health of Lille, September 2005.

Grants

- CPER (Contrat de Projets Etat-Régions), 2014 (4,800€)
- GEFLUC Nord (Groupement des Entreprises Française dans la LUTte contre le Cancer), 2014 (10,000€)
- Ligue contre le cancer, 2014 (15,000€)
- SIRIC OncoLille (Site de Recherche Intégrée sur le Cancer de Lille), 2014 (15,000€)
- SFCE (Société Française de lute contre les Cancers et les leucémies chez l'Enfant et l'adolescent), 2013 (55,000€)
- BQR (Bonus Quality Research), University of Lille 1, 2013 (20,000€)
- Installation grant INSERM, 2013 (40,000€)
- SIRIC OncoLille (Site de Recherche Intégrée sur le Cancer de Lille), 2013 (30,000€)
- Ward Family Award, 2011 (45,000\$)
- Ward Family Award, 2010 (30,000\$)
- French research association against cancer (ARC) Fellowship, from October 2006 to September 2007 (15,000€),
- French ministry of Research Fellowship, from October 2003 to September 2006 (45,000€).

Membership in Professional Societies

- **'Society of Electrophoresis and Proteomic Analysis'** (SFEAP) (2004-2006)
- Secretary of the French **'Society of Electrophoresis and Proteomic Analysis'** (SFEAP) young club (2005)
- Treasurer of the French **'Society of Electrophoresis and Proteomic Analysis'** (SFEAP) young club (2006)
- **Radiation research society**, RRS (since 2008)
- **America Association of Cancer Research**, AACR (since 2008)

Ad Hoc Journal Reviewer Activity (non exhaustive list)

Journal of Biomedecine and Biotechnology, BioMed Central (BMC) cancer, Journal of Nuclear Medicine, Radiation Research, Expert Review of Proteomics, Tumor Biology, Translation Oncology...

Languages

- French : Native speaker,
- English : Read, written, spoken,
- Spanish : Basic spoken.

Technical skills

Proteomics:

- Immunoprecipitation,
- 2D electrophoresis and 2D gel comparative analysis
- Mass spectrometry (MALDI-ToF, LC-MS/MS)
- SILAC analysis
- Phospho-proteome analysis (ProQ diamon)

- Western blot

Cell biology:

- Rescue and expansion of normal epithelial breast cells
- Expansion of primary cancerous breast cells and cancer cell lines
- Expansion of cancer stem cells
- Preparation of tumor cell cultures from primary tumor tissue
- Apoptosis detection (TUNEL, Hoechst, AnnexinV)
- Transitory and stable transfection (Lipofectamin, FuGene, Amaxa electroporation)
- Viral infection (Retro/Lentil virus)
- Immunohisto and cytochemistry
- Confocal microscopy
- Maestro florescent imaging (Living animal imaging)
- FACS
- Cell sorting
- 3D culture (Soft Agar, matrigel)
- Migration and invasion essays (Boyden Chamber, Abidi chamber)
- Trained in radiation safety

Animal experimentation:

- Tumor animal models (Sub-cutaneous, brain and fat pad injection)
- Testing chemotherapies
- Testing radiotherapies
- Metastasis analysis (Intravenous injection)

Molecular biology:

- Cloning
- Bacterial transformation
- Retrovirus production
- Retrovirus infection

- Plasmid amplification and purification
- Primer design, RNA and DNA isolation, PCR, RealTime-PCR and qPCR

Computer related skills

- Softwares : PDQuest (2D analysis), M/Z and Data explorer (MS spectra analysis), MX4000 (qPCR analysis) DEVONthink Pro Office (Data base), Image J., FlowJo, Prism,
- Operating systems : Mac OS X, Windows, Linux (Mandrake, Ubuntu).

Referees

Frank Pajonk, MD, PhD (Assoc. Professor)

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Publications

1. Lagadec C., Vlashi E., Bhuta S., Lai C., Mischel P., Werner M., Henke M, Pajonk F., Tumor cells with low proteasome subunit expression predict overall survival in head and neck cancer patients. **BMC Cancer**. 2014 Mar 5;14:152.
2. Tomellini E., Lagadec C., Polakowska R., Le Bourhis X., Role of p75 neurotrophin receptor in stem cell biology: more than just a marker. **Cell Mol Life Sci**. 2014, Jan 31. (in press)
3. Lagadec C., Vlashi E., Frohnen P., Alhiyari Y., Chan M., Pajonk F., The RNA-Binding Protein Musashi-1 Regulates Proteasome Subunit Expression in Breast Cancer- and Glioma-Initiating Cells. **Stem Cells**, 2014, 32(1):135-44. *IF: 7.701*
4. Vlashi E., Lagadec C., Chan M., Frohnen P., McDonald A.J., Pajonk F., Targeted elimination of breast cancer cells with low proteasome activity is sufficient for tumor regression. **Breast Cancer Res Treat**. 2013 Sep;141(2):197-203.
5. Lagadec C. #, Vlashi E. #, Phillips T.M., Bochkur Dravter M., Chan M., Frohnen P., Pajonk F., Radiation-induced Notch Signaling in Breast Cancer Stem Cells, **Int J Radiat Oncol Biol Phys**. 2013 Nov 1;87(3):609-18. *IF: 4.524* (# authors contribute equally to the work)
6. Lagadec C., Vlashi E., Della Donna L., Dekmezian C., Pajonk F., *Radiation-induced Reprogramming of Breast Cancer Cells*. **Stem Cells**, 2012, 30(5):833-44. *IF: 7.701*
7. Lagadec C., Pajonk F., Catch-22: does breast cancer radiotherapy have negative impacts too? **Future Oncol**. 2012 Jun;8(6):643-5.
8. Lagadec C., Dekmezian D., Bauché L., Pajonk F., *Oxygen levels do not determine radiation survival of breast cancer stem cells*. **PLoS One**, 2012, 7(3):e34545. *IF: 3.730*
9. Della Donna L.#, Lagadec C.#, and Pajonk F., Radioresistance in Prostate Cancer Cells Correlates with Low Proteasome Activity. **Prostate**, 2012, 72(8):868-74. *IF: 3.843* (# authors

contribute equally to the work)

10. Vlashi E.[#], Lagadec C.[#], Vergnes L., Matsutani T., Masui K., Poulou M., Popescu R., Della Donna L., Evers P., Dekmezian C., Reue K., Christofk H., Mischel P. and Pajonk F., Metabolic State of Glioma Stem Cells and Nontumorigenic Cells. **Proc Natl Acad Sci U S A.**, 2011, 108(38):16062-7. *IF: 9.737* (# authors contribute equally to the work)
11. Lagadec C., Romon R., Tastet C., Meignan S., Com E., Page A., Hondermarck H., Le Bourhis X., Ku86 is important for TrkA overexpression-induced breast cancer cell invasion, **Proteomics Clin Appl**, 2010, 4(6-7); 580–90. *IF: 2.925*
12. McDonald J.T., Kim K., Norris A.J., Vlashi E., Phillips T.M., Lagadec C., Della Donna L., Ratikan J., Szelag H., Hlatky L., McBride W.H., Ionizing Radiation Activates the Nrf2 Antioxidant Response. **Cancer Res.**, 2010, 1;70(21):8886-95. *IF: 8.650*
13. Verbeke S., Meignan S., Lagadec C., Germain E., Hondermarck H., Adriaenssens E., Le Bourhis X., Overexpression of p75(NTR) increases survival of breast cancer cells through p21(waf1). **Cell Signal.**, 2010, 22(12):1864-73. *IF: 4.304*
14. Romon R., Adriaenssens E., Lagadec C., Germain E., Hondermarck H., Le Bourhis X., Nerve Growth Factor promotes breast cancer angiogenesis by activating multiple pathways, **Mol. Cancer**, 2010, 9: 157. *IF: 5.134*
15. Vlashi E., Mattes M., Lagadec C., Della Donna L., McDonald J.T., Nikolay P., McBride W.H., Pajonk F., NPI0052 is effective against primary gliomas in vitro, but does not synergize with radiation treatment in vivo, **Transl. Oncol.**, 2010, 3(1):50-5. *IF: 2.943*
16. Lagadec C.[#], Vlashi E.[#], Della Donna L., Meng Y, Dekmezian C, Kim K., Pajonk F., Survival, self-renewing capacity and multi-lineage potency of breast cancer initiating cells during fractionated radiation treatment, **Breast Cancer Res.**, 2010, 16;12(1):R13. *IF: 5.872* (# authors contribute equally to the work)

17. Lagadec C., Meignan S., Adriaenssens E., Foveau B., Vanhecke E., Romon R., Toillon R.A., Oxombre B., Hondermarck H., Le Bourhis X., TrkA overexpression enhances growth and metastasis of breast cancer cells. **Oncogene**, 2009, 7;28(18):1960-70. *IF: 7.357*
18. Vlashi E., Kim K., Lagadec C., Della Donna L., McDonald J.T., Eghbali M., Sayre J.W., Stefani E., McBride W., Pajonk F., *In vivo* imaging, tracking, and targeting of cancer stem cells. **JNCI**, 2009, 4;101(5):350-9. *IF: 14.336*
19. Lagadec C., Adriaenssens E., Toillon R.A., Chopin V., Romon R., Van Copenolle F., Hondermarck H., Le Bourhis X., Tamoxifen and TRAIL synergistically induce apoptosis in breast cancer cells. **Oncogene**, 2008, 28;27(10):1472-7. *IF: 7.357*
20. Com E., Lagadec C., Page A., El Yazidi-Belkoura I., Slomianny C., Spencer A., Hammache D., Rudkin B., Hondermarck B., Nerve Growth Factor Receptor TrkA signaling in breast cancer cells involves Ku70 to prevent apoptosis. **Mol. and Cell. Proteomics**, 2007, 6(11):1842-54. *IF: 7.398*
21. Toillon R.A.[#], Lagadec C.[#], Page A., Chopin V., Sautière P.E., Ricort J.M., Lemoine J., Zhang M., Hondermarck H., Le Bourhis X., Proteomic Demonstration that Normal Breast Epithelial Cells Induce Apoptosis of Breast Cancer Cells through Insulin-Like Growth Factor Binding Protein-3 and Maspin. **Mol. and Cell. Proteomics**, 2007, 6(7):1239-47. *IF: 7.398* (# authors contribute equally to the work)
22. Julien S., Lagadec C., Krzewinski-Recchi M.A., Courtand G., Le Bourhis X., Delannoy P., Stable expression of sialyl-Tn antigen in T47-D cells induces a decrease of cell adhesion and an increase of cell migration. **Breast Cancer Res. Treat.**, 2005, 90(1), 77-84. *IF: 4.469*

Papers Submitted

1. Tomellini E., Touil Y., Lagadec C., Julien S., Ziental-Gelus N., Lengrand J., Adriaenssens E., Renata Polakowska R., Le Bourhis X., NGF and proNGF simultaneously promote symmetric

self-renewal, quiescence and EMT to enlarge the breast cancer stem cell compartment. **Stem Cell.**

Papers in preparation (Research completed)

1. Lagadec C., Phillips T.M., Souda P., Whitelegge J., Pajonk F., Lamin A/C is up-regulated in breast cancer stem cells and participates to radiation resistant.

Abstracts

1. **Lagadec C.**, Vlashi E., Della Donna L., Dekmezian C., Frohen P., Chan M., Alhiyari Y., Bochkur Dratver M., Pajonk F., **Radiation induces reprogramming of Breast Cancer Stem Cells.** *13th International Wolfsberg Meeting on Molecular Radiation Biology/Oncology – Wolfsberg, June 2013, Abstract PI.17. (Best Poster presentation award)*
2. **Lagadec C.**, Vlashi E., Frohen P., Alhiyari Y., Chan M., Pajonk F., **The RNA-binding protein Musashi-1 regulates proteasome subunit expression in breast cancer and glioma CSCs/tumor-initiating cells.** *13th International Wolfsberg Meeting on Molecular Radiation Biology/Oncology – Wolfsberg, June 2013, Abstract PIV.1.*
3. Vlashi E., **Lagadec C.**, Chan M., Frohen P., Alhiyari Y., Bochkur Dratver M., Pajonk F., **rhEpo synergizes with radiation in enriching the breast cancer stem cell pool explaining inferior treatment out-comes in the clinic.** *13th International Wolfsberg Meeting on Molecular Radiation Biology/Oncology – Wolfsberg, June 2013, Abstract PIV.4.*
4. **Lagadec C.**, Vlashi E., Della Donna L., Dekmezian C., Pajonk F., **Radiation induces reprogramming of Breast Cancer Stem Cells.** *Annual Meeting of American Association of Cancer Research – Chicago, March 2012, Abstract 416.*

5. **Lagadec C.**, Della Donna L., Vlashi E., Dekmezian C., Pajonk F., **Radiation induces Notch-dependent *de novo* generation of Breast Cancer Stem Cells.** *San Antonio Breast Cancer Symposium* - San Antonio, December 2011, Abstract PD02-10.
6. **Lagadec C.**, Della Donna L., Vlashi E., Dekmezian C., Pajonk F., **Radiation induces Notch-dependent *de novo* generation of breast cancer stem cells via expression of OCT-4/SOX2/NANOG.** *Annual Meeting of American Association of Cancer Research* – Orlando, March 2011, Abstract 4372.
7. **Lagadec C.**, Della Donna L., Vlashi E., Dekmezian C., Pajonk F., **Radiation induces Notch-dependent *de novo* generation of Breast Cancer Stem Cells.** *San Antonio Breast Cancer Symposium* - San Antonio, December 2010, Abstract PD02-10.
8. **Lagadec C.**, Della Donna L., Vlashi E., Dekmezian C., Pajonk F., **CSCs enrichment and CSCs/Progeny phenotype plasticity are driven by Notch signaling pathway in breast cancer cells during radiation treatment.** *Radiation Research Society* - Maui, September 2010, Abstract PS3.29.
9. Vlashi E., **Lagadec C.**, Della Donna L., Dekmezian C., Souda P., Whitelegge J., Pajonk F., **Regulation of 26S proteasome activity by radiation during the different phases of the cell cycle.** *Radiation Research Society* - Maui, September 2010, Abstract S4.18.
10. Della Donna L., **Lagadec C.**, Vlashi E., Evers P., Dekmezian C., Behjat J., Pajonk F., **Cancer stem cells –Lessons learned from needle in the haystack.** *Radiation Research Society* - Maui, September 2010, Abstract S302.
11. **Lagadec C.**, Vlashi E., Della Donna L., Meng YH, Dekmezian C, Kim K., Pajonk F., **Survival and self-renewing capacity of breast cancer initiating cells during fractionated radiation treatment.** *Annual Meeting of American Association of Cancer Research* –

Washington DC, April 2010, Abstract 4287. (**AACR-Susan G. Komen for the Cure Scholar-in-Training Award**)

12. Vlashi E., **Lagadec C.**, Della Donna L., Meng YH, Dekmezian C, Pajonk F., **Glioma stem cells perform oxidative phosphorylation, while the rest of glioma cells perform aerobic glycolysis.** *Annual Meeting of American Association of Cancer Research – Washington DC, April 2010, Abstract 4241. (AACR-Bristol-Myers Squibb Oncology Scholar-in-Training Award)*

13. Della Donna L., **Lagadec C.**, Vlashi E., Meng YH, Dekmezian C, Souda P., Whitelegge J., Pajonk F., **The activity of the 26S proteasome is modulated during the different phases of the cell cycle.** *Annual Meeting of American Association of Cancer Research – Washington DC, April 2010, Abstract 1063. (Merck Scholar-in-Training Award)*

14. **Lagadec C.**, Vlashi E., Della Donna L., Pajonk F., **The Response of Breast Cancer Initiating Cells to fractionated Radiation,** *San Antonio Breast Cancer Symposium - San Antonio, December 2009, Abstract 1153. (AACR-Susan G. Komen for the Cure Scholar Award)*

15. **Lagadec C.**, Meignan S., Adriaenssens E., Toillon R.A., Hondermarck H., Le Bourhis X., **TrkA overexpression enhances growth and metastasis of breast cancer cells, and Ku86 is crucial for TrkA overexpression-induced breast cancer cell invasion,** *San Antonio Breast Cancer Symposium - San Antonio, December 2009, Abstract 4169.*

16. Vlashi E., **Lagadec C.**, Della Donna L., Nikolay P., Mattes M., McBride W., Pajonk F., **Characterization of radiation and chemotherapy resistance of glioma stem cells via a novel cancer stem cell marker.** *Annual Meeting of American Association of Cancer*

Research - Denver, April 2009, Abstract 1081.

17. Della Donna L., Vlashi E., **Lagadec C.**, Nikolay P., Mattes M., McBride W., Pajonk F., **Immunogenicity of prostate cancer stem cells.** *Annual Meeting of American Association of Cancer Research* - Denver, April 2009, Abstract 4180.
18. Della Donna L., Vlashi E., **Lagadec C.**, Whitelegge J., Souda P., Nikolay P., Mattes M., McBride W., Pajonk F., **Quantitative proteomic analysis of radiation induced posttranslational modifications of the 26S proteasome.** *Annual Meeting of American Association of Cancer Research* - Denver, April 2009, Abstract 3552.
19. **Lagadec C.**, Vlashi E., Della Donna L., McBride W., Pajonk F., **Treatment responses of breast cancer stem cells.** *San Antonio Breast Cancer Symposium* - San Antonio, December 2008, Abstract 5505. **(Novartis Oncology Basic Science Award)**
20. Vlashi E., Kim K., **Lagadec C.**, Della Donna L., McDonald J. T., McBride W., Pajonk F., **Exploiting the low proteasome activity of glioma stem cells for their identification, tracking and elimination.** *Radiation Research Society* - Boston, September 2008. Abstract **(Marie Curie Award)**.
21. Vlashi E., Kim K., **Lagadec C.**, Della Donna L., McDonald J.T., McBride W., Pajonk F., **Low proteasome activity of glioma stem cells can be exploited for characterization of radiation and chemotherapy resistance.** *Radiation Research Society, Cancer Stem Cells Joint RRS/ASTRO Minisymposium* - Boston, September 2008. Abstract PS3576.
22. **Lagadec C.**, Vlashi E., Della Donna L., Kim K., McDonald J.T., McBride W., Pajonk F., **Proteomic exploration of the radiation-resistant phenotype of CSCs/CICs in breast**

- cancer. *Radiation Research Society*** - Boston, September 2008. Abstract PS3594.
23. Della Donna L., **Lagadec C.**, Vlashi E., Kim K., McDonald J.T., Whitelegge J., McBride W., Pajonk F., **Radiation-induced posttranslational modification and expression of proteasome subunits.** *Radiation Research Society* - Boston, September 2008. Abstract PS3581.
24. McDonald J.T., Kim K., Norris A., Vlashi E., **Lagadec C.**, Della Donna L., McBride W., **Nrf2 expression but not activation mediates radiation resistance.** *Radiation Research Society* - Boston, September 2008. Abstract PS3548.
25. Kim K., Norris A., McDonald J.T., Damoiseaux R., Vlashi E., **Lagadec C.**, Della Donna L., Micewicz E., Iwamoto K., McBride W., **High throughput screening of small molecule libraries to identify radioprotectors.** *Radiation Research Society* - Boston, September 2008. Abstract PS3508.
26. Vlashi E., Kim K., Della Donna L., McDonald J. T., **Lagadec C.**, McBride W., Pajonk F., **“Proteasome Activity as a Means to Identify, Track, and Target Cancer-Initiating Cells.”** *The Role of Cancer Stem Cells in the Identification and Propagation of Tumorigenesis.* *Annual Meeting of American Association of Cancer Research* - San Diego, February 2008. Abstract A5.
27. Com E., **Lagadec C.**, Page A., Hondermarck H., **Functionnal proteomics of TrkA signaling in breast cancer cells.** *Annual congress of SFEAP* - St Malo, October 2006.

28. **Lagadec C.**, Tastet C., Adriaenssens E., Com E., Page A., Meignan S., Hondermarck H., Le Bourhis X., **Functionnal proteomics exploration of TrkA overexpression in breast cancer cells.** *Annual congress of SFEAP - St Malo, October 2006.*
29. **Lagadec C.**, Meignan S., Adriaenssens E., Hondermarck H., Le Bourhis X., **Effect on NGF receptor overexpression on breast cancer cell growth.** *Internationnal congress NGF 2006 – Lyon, May 2006.*
30. **Lagadec C.**, Chopin V., Adriaenssens E., Hondermarck H., Le Bourhis X., **Synergistic apoptosis induction of breast cancer cells by Tamoxifen and TRAIL.** *Signal Transduction Pathways as therapeutic targets, Cell Signaling World - Luxembourg, January 2006. Abstract X,54.*
31. **Lagadec C.**, Adriaenssens E., Hondermarck H., Le Bourhis X., **Effect of NGF Tyrosine kinase receptor TrkA overexpression on breast cancer cells.** *Annual conference of the doctoral school of Biology and health of Lille – Lille, September 2005. (Best Poster Presentation Award).*