

Marc PIECHACZYK

50 y.o., French

EDUCATION

1985: PhD ("Thèse d'Etat"; Biochemistry), Montpellier

APPOINTMENTS

1983: Researcher at the CNRS

1991: Director of Research 2 at the CNRS

2000-: Director of Research 1 at the CNRS

PROFESSIONAL CURSUS

1983-1992 : Lab. of Molecular Biology, University of Montpellier

1984 to 1986 : Several stays at the State University of Stony Brooks (NY; Pr K. Marcu) and at the NIH (Bethesda, MD; Dr F. Mushinski)

1993-: Group leader at the IGMM ("Oncogenesis and Immunotherapy")

2006-: Assistant-Director of the IGMM

SCIENTIFIC BACKGROUND

Oncogenesis, Gene Regulation, Transcription Factors, Cell Signaling

Protein degradation, Ubiquitin-like molecules

Retrovirology, Gene Therapy, Immunotherapy

PUBLICATIONS AND PATENTS

120 publications; 20 book chapters; 6 patents

HONOURS

1986 and 1990: Prizes "Vendée" and "Dumonteil" from the French "Ligue Nationale contre le Cancer"

1990 : Prize of Molecular Biology from the French "Fondation pour la Recherche Médicale"

2001: Highly Cited Researcher (ISI/Thompson Scientific)

FOUNDING MEMBER

1992: Founding member of the Montpellier Institute of Molecular Genetics

1992: European Working Group on Gene Transfer and Human Gene Therapy (EWGT became ESGT)

1999: "Proteolysis" group of the SFBBM (2000-2002: President)

MAJOR CONTRACTS

1995-1998 : Member of the European Biotech Network PL950100

2001-2004: Co-coordinator of the U2P2 EC network (The ubiquitin/proteasome system to pave the way for anticancer approaches) with Olivier Coux (QLRT-2000-02026)

2005-2007: "Equipe Labellisée" of the French National Ligue against Cancer

2008-2010: "Equipe Labellisée" of the French National Ligue against Cancer

2005-2007: ACI BCMS from the French Ministry of Research

TEACHING

Organizer of several practical courses

Numerous lectures

1982-2005: Responsible of teaching units of the Montpellier DEA "Biologie-Santé" (Master Degree)

MEETINGS

Organizer or co-organizers of several national and international meetings and of several training courses

MISCELLANEOUS

Reviewer for many journals

Reviewer for many national and international grant applications.

Various scientific national and international scientific committees, including as president

SELECTED PUBLICATIONS RELATED TO PROTEIN DEGRADATION AND UBIQUITIN-LIKE MOLECULE

- 1- Farras R, Baldin V, Gallach S, Acquaviva C, Bossis G, Jariel-Encontre I, Piechaczyk M. JunB breakdown in mid/late G2 is required for down-regulation of cyclin A2 levels and proper mitosis. (2008) *Mol Cell Biol.* (in press)
- 2- Jariel-Encontre, I., Bossis, G., Piechaczyk, M. Ubiquitin-independent degradation of proteins by the proteasome (2008) *BBA Reviews Cancer* (In press)
- 3- Garaude J, Farrás R, Bossis G, Charni S, Piechaczyk M, Hipskind RA, Villalba M. SUMOylation Regulates the Transcriptional Activity of JunB in T Lymphocytes. (2008) *J Immunol.* 180:5983-5990.
- 4- Baldin V, Militello M, Thomas Y, Doucet C, Fic W, Boireau S, Jariel-Encontre I, Piechaczyk M, Bertrand E, Tazi J, Coux O. A Novel Role for PA28 $\{\gamma\}$ -Proteasome in Nuclear Speckle Organization and SR Protein Trafficking (2008) *Mol Biol Cell* 19 :1706-16.
- 5- Basbous, J., Chalbos, D., Hipskind, R., Jariel-Encontre, I. and Piechaczyk, M. Ubiquitin-independent proteasomal degradation of Fra-1 is antagonized by Erk1/2 pathway-mediated phosphorylation of a unique C-terminal destabilizer. (2007) *Mol Cell Biol.* 27:3936-3950
- 6- Malnou CE, Salem T, Brockly F, Wodrich H, Piechaczyk M, Jariel-Encontre I. Heterodimerization with Jun family members regulates c-Fos nucleocytoplasmic traffic. (2007) *J Biol Chem.* 2007 282 :31046-31059
- 7- Bossis, G., Jariel-Encontre, I., Malnou, C., Andermarcher, E., Farras, R., Hipskind, R., Rodriguez, M., Schmidt, D., Müller, S. and Piechaczyk, M. SUMO modification of c-Fos and c-Jun cooperate to silence AP-1 transcriptional activity. (2005) *Mol Cell Biol.* 25: 6964-6979
- 8- Salinas, S., Briançon-Marjollet, A., Bossis, G., Lopez, M.A., Piechacyk, M., Jariel-Encontre, I., Debant, A. and Hipskind, R.A. SUMOylation regulates nucleo-cytoplasmic shuttling of Elk-1 (2004) *J. Cell Biol* 165: 767-73
- 9- Bossis, G., Ferrara, P, Acquaviva, C., Jariel-Encontre, I. and Piechaczyk, M c-Fos proto-oncoprotein is degraded by the proteasome independently of its own ubiquitination in vivo (2003) *Mol Cell Biol* 23: 7425-7436.
- 10- Doye A., Mettouchi A, Bossis G*, Buisson-Touati C, Flatau G, Gagnoux L, Piechaczyk M, Boquet P and Lemichez E. The bacterial CNF1 toxin exploits the ubiquitin/proteasome pathway to achieve a transient activation of the Rac small GTPase (2002) *Cell* 111 : 553-564.

SELECTED PUBLICATIONS RELATED TO IMMUNOVIROLOGY AND IMMUNOTHERAPY

- 1- Gros L, Pelegrin M, Michaud HA, Bianco S, Hernandez J, Jacquet C, Piechaczyk M. Endogenous cytotoxic T-cell response contributes to the long-term antiretroviral protection induced by a short period of antibody-based immunotherapy of neonatally infected mice (2008) *J Virol.* 82 :1339-1349.
- 2-Gros, L., Pelegrin, M., Plays, M. and Piechaczyk, M. Efficient mother-to-child transfer of anti-retroviral immunity in the context of a preclinical monoclonal antibody-based immunotherapy (2006) *J. Virol.* 80 : 10191-10200
- 3- Gros, L., Pelegrin, M., Plays, M. and Piechaczyk, M. Efficient mother-to-child transfer of anti-retroviral immunity in the context of a preclinical monoclonal antibody-based immunotherapy (2006) *J. Virol.* 80 : 10191-10200
- 4- Dreja, H., Gros, L., Villard, S., Bachrach, E., Oates, A., Granier, C., Chardes, T., Mani, J-C., Piechaczyk, M. and Pelegrin, M.. The 667 monoclonal antibody recognizes the VRA motif of the ecotropic CasBrE retrovirus envelope glycoprotein and exerts its neutralizing activity through direct inhibition of the binding to the viral receptor (2003) *J Virol.* 77 : 10984-10993.
- 5- Noël, D., Pelegrin M., Kramer, S., Skander, N., Jacquet, C. and Piechaczyk, M. A high in vivo monoclonal antibody production upon adenoviral gene transfer can induce a low but non neutralizing anti-idiotypic response (2002) *Hum. Gene Ther.* 13 :1483-1493.
- 6- Pelegrin, M., Marin, M. Noël; D, Saller; R., Salmons, B and Piechaczyk, M. Immunotherapy of a viral disease by in vivo production of therapeutic monoclonal antibodies (2000) *Hum. Gene Ther.* 10 : 1407-1415