

## I- Brief Curriculum vitae

**Name:** PAKDEL  
**First name:** Farzad  
**Date of birth:** 22/03/1960 (in Shiraz/Iran)  
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### Current Position

**Director of Research (DR1) at CNRS**

Head of the team 6 “Transcription, Environment and Cancer”, IRSET- U1085 Inserm (Rennes, France)

### Education and Degrees

**1981-1984** License of Biochemistry and Molecular Biology, University of Rennes  
**1984-1986** Master of Science in molecular and cellular biology, University of Rennes  
**1986-1989** Ph.D Thesis in Molecular Biology, University of Rennes  
**1999** Habilitation to Direct Research (HDR)

### Scientific Career

**1986-1989** Associated assistant professor at the University of Rennes  
**1989-1992** Post-doctoral Researcher at the University of Illinois, Urbana-Champaign, U.S.A, in Pr. Benita S. Katzenellenbogen team  
**1992-2001** Full scientist Researcher CNRS (Chargé de recherche, CR1), UMR 6026 CNRS/UR1  
**2002-2017** CNRS Research Director (Directeur de recherche 2ème classe, DR2), UMR 6026 CNRS and Irset, U1085 Inserm, Rennes  
**2018-present** CNRS Research Director (Directeur de recherche 1ère classe, DR1), Irset, U1085 Inserm, Rennes

### Scientific and Economic Activities, Duty and Expertise

- Guest Editor of “International Journal of Molecular Sciences - Special Issue: Molecular Pathways of Estrogen Receptor Action (Sep2016-Dec2017).
- Member of the Editorial Board of “International Journal of Hormone Research”, The Scientific World Journal” and “Journal of Hormones”
- Member of the Committee Board of Reviewers of “Frontiers in Environmental Toxicology”
- Member of the board of directors of EHESP (School of Higher Studies in Public Health)
- Member of the board of directors of IRSET (Research Institute of Health-Environment-Work)
- Member of the scientific advisory committee of ImpACcell (SFR UMS CNRS 3480 - INSERM 018)
- Supervisor of 7 PhD, 7 Post-docs and 22 M1/M2 students
- President and Referee of PhD thesis (1-2 PhD thesis per year, as average, from 1999) and member of the PhD committees (1-2 per year)
- Reviewer for national or international research projects including projects for the NSF (National Science Foundation), SNF (Swiss National Science Foundation), COST (European Cooperation in Science and Technology), La Ligue, AERES, ANSES and ANR
- Reviewer for different international scientific journals in the area of molecular endocrinology and environmental science (10-15 manuscripts reviewed per year, as average), including J. Mol. Endocrinol., Endocrinology, PLoS One, Toxicol. Sci., Environ. Res. and Toxicol Appl. Pharmacol.,...
- Industrial collaborations including Triballat Noyal (Nutrinov), European leader in soybean processing and the worldwide recognized agriculture food industry, the Groupe Roullier.
- Long-time collaborations with INERIS on the development of alternative models and evaluation of the mixture effects of endocrine disruptors.

### Research Expertise

Estrogen receptor, Gene expression, Cell proliferation, Breast cancer, Mechanisms of resistance, Prevention, Endocrine disrupter chemicals, Selective Estrogen Receptor Modulators

### Teaching and Training

**1992-2018** Continual participation and teaching in the M2 degree, University of Rennes 1  
**2005-2018** Co-responsible for the teaching units of cell communication and signalization in the master degree (M2 research) of the University of Rennes 1  
**2006-2014** Teaching in the M2 degree “Reproductive biology” of the University of Tours  
**2014-2018** Teaching in the M2 degree “Integrative Biology” of the University of Paris 6, UPMC

### Distinctions and Awards

Price of young CNRS team “jeune équipe” in 2002

### Scientific Production

I currently published more than 90 articles in international journals with referees (indexed in the web of science) and 3 are being finalized. These articles were published in journals with an IF between 2.5-14.5 and some are cited more than 300 times (Web of Science, 21/07/2017).

*h*-index: 44

Sum of the Times Cited: 5 349

Average Citations per Item: 45.36

### List of Some Main and Recent Publications

1- Lecomte S, Chalmel F, Ferriere F, Percevault F, Plu N, Saligaut C, Surel C, Lelong M, Efstathiou T, **Pakdel F.** (2017) Glyceollins trigger anti-proliferative effects through estradiol-dependent and independent pathways in breast cancer cells. **Cell Commun Signal.**, 15: 26.

2- Lecomte S, Le Long M, Bourguin G, Efstathiou T, Saligaut C, **Pakdel F** (2017) Assessment of the potential activity of major dietary compounds as selective estrogen receptor modulators in two distinct cell models for proliferation and differentiation. **Toxicology and Applied Pharmacology**, 325:61-70

3- Chouchene L, Pellegrini E, Gueguen MM, Hinfray N, Brion F, Piccini B, Kah O, Saïd K, Messaoudi I, **Pakdel F** (2016) Inhibitory effect of Cadmium on estrogen signaling in zebrafish brain and protection by Zinc. **Journal of Applied Toxicology**, 36: 863-871.

4- Boudot A, Kerdivel G, Lecomte S, Flouriot G, Desille M, Godey F, Leveque J, Tas P, Le Dréan Y, **Pakdel F.** (2014) COUP-TFI modifies CXCL12 and CXCR4 expression by activating EGF signaling and stimulates breast cancer cell migration. **BMC Cancer**, 14:407-420.

5- Kerdivel G, Boudot A, Habauzit D, Percevault F, Demay F, **Pakdel F**, Flouriot G (2014) Activation of the MKL1/actin signaling pathway induces hormonal escape in estrogen-responsive breast cancer cell lines. **Mol Cell Endocrinol.**, 390:34-44.

6- Kerdivel G, Flouriot G, **Pakdel F.** (2013) Modulation of Estrogen Receptor alpha activity and expression during cancer progression. **Vitamins & Hormones**, 93:135-160.

7- Kerdivel G, Le Guevel R, Habauzit D, Brion F, Ait-Aissa S, **Pakdel F.** (2013) Estrogenic Potency of Benzophenone UV Filters in Breast Cancer Cells: Proliferative and Transcriptional Activity Substantiated by Docking Analysis. **PLoS One**, 8 (4): e60567.

8- Boudot A., Kerdivel G., Habauzit D., Eeckhoutte J., Le Dily F., Flouriot G., Samson M., **Pakdel F.** (2011). Differential estrogen-regulation of CXCL12 chemokine receptors, CXCR4 and CXCR7, contributes to the growth effect of estrogens in breast cancer cells. **PLoS One**, 6: e20898.

9- Le Dily F, Métivier R, Guéguen MM, Le Péron C, Flouriot G, Tas P, **Pakdel F.** (2008) COUP-TFI modulates estrogen signaling and influences proliferation, survival and migration of breast cancer cells. **Breast Cancer Res Treat.** 110, 69-83.

10- Le Page Y, Scholze M, Kah O, **Pakdel F.** (2006) Assessment of xenoestrogens using three distinct estrogen receptors and zebrafish brain aromatase gene in a highly responsive glial cell system. **Environ. Health Perspect.** 114, 752-758.

11- Menuet A, Le Page Y, Torres O, Kern L, Kah O, **Pakdel F.** (2004) Analysis of the estrogen regulation of the zebrafish estrogen receptor (ER) reveals distinct effects of ERalpha, ERbeta1 and ERbeta2. **J Mol Endocrinol.**, 32, 975-986.

12- Métivier R., Gay F., Hübner M.R., Flouriot G., Salbert G., Gannon F., Kah O, **Pakdel F.** (2002). Formation of an hERα-COUP-TFI complex enhances hERαAF-1 through Ser118 phosphorylation by MAPK. **EMBO J.**, 21, 1-11.