



Thierry MEINNEL

Born 20/07/1963

Thierry.Meinnel@isv.cnrs-gif.fr

UPR2355, CNRS

Institut des Sciences du Végétal

Bât23, 1 avenue de la Terrasse

91198 Gif/Yvette cedex

EDUCATION

- **Habilitation à Diriger des Recherches** (corresponds to the highest academic degree in France and authorises to supervise PhD Thesis), Université Paris-Sud, 1996.
- **PhD Thesis of Ecole Polytechnique**, Palaiseau, France, 1990.
- **DEA** (A specialized Master degree required to attain a PhD Thesis) of molecular and cellular biology of development, University Paris-Descartes, Paris, France, 1987.
- **Agrégation of Biochemistry** (A selective state administered examination allowing to teach in French Universities, equivalent to a teaching credential), 1986
- **Ecole Normale Supérieure** (French "Grande Ecole"), **Cachan (France)**, 1983-1987.

POSITIONS

- Direction* **Deputy Scientific Director** at Centre National de la Recherche Scientifique (Field of Structural Biology, Enzymology, and Pharmacology) since 11/2007
Director ITMO Alliance Aviesan (an organization which gathers all French agencies in Life sciences and health and organized with 10 different ITMOs), since 4/2009 (Field of Molecular & Structural Bases of Living Systems)
Deputy Director of Plant Science Institute (ISV) since 1/2010
- Research* **Research Director (CNRS)** since 2000 (**DR1** since 9/2008); Plant Biology section Researcher (CNRS); Structural Biology section, (1990-2000)
- Teaching* **Assistant Professor, Ecole Polytechnique:Molecular Biology**, (1988-2003)
Professor of Biology **ENSTA**, 2000-2001

SCIENTIFIC CAREER

Institut Pasteur, Unité de Biochimie, Paris (1986-1987)

Ecole Polytechnique, Laboratoire de Biochimie, Palaiseau, (1988-1999)

CNRS Research center of Gif, Institut des Sciences Végétales (ISV), Gif/Yvette (since 9/99)

MILITARY SERVICE

As a teacher of Biology at the Ecole Polytechnique (10/1/87 to 9/30/88), 80-100 hours/year

HONORS AND DISTINCTIONS

Bronze Medal CNRS (1994).

ATIP CNRS (1999), a competitive grant for 3 years aimed at creating an independent group.

PES CNRS (2010-2013), a competitive distinction for excellent research with extra-salary (highest level in this case)

ACTIVITES DE RECHERCHE

H-facteur = **34**, >2700 quotations

- **80 publications** in peer-reviewed journals.

- 74 communications including 24 talks in international meeting and 6 plenary lectures.

- 31 invited conferences in France and abroad, including pharmaceutical companies.

- 3 softwares
- 31 structures (NMR and X-Ray) available at PDB.
- 139 entries of protein sequences at NCBI.

PATENTS

- Meinzel, T. *et al.* (2005) European Patent EP168521. Priority 21/01/05EP05290137.
- Meinzel, T. *et al.* (2006) Priority 20/01/06 PCT/EP2006/000508.

5 SELECTED PUBLICATIONS (2006-2011)

- 1) Fioulaine, S., Boularot, A., Artaud, I., Desmadril, M., Dardel, F., Meinzel, T. & Giglione C. (2011) Trapping conformational states along ligand binding dynamics of peptide deformylase: the impact of induced fit on enzyme catalysis. *PLoS Biol.* **9**, e1001066e (**IF=14.8**).
- 2) Bayer, M., Nawy, T., Giglione, C., Galli, M., Meinzel, T. & Lukowitz, W. (2009) Paternal control of embryonic patterning in *Arabidopsis thaliana*. *Science*, **323**, 1485-1488. (**IF₅=30.3**)
- 3) Frottin, F., Espagne, C., Traverso, J.A., Mauve, C., Valot, B., Lelarge-Trouverie, C., Zivy, M., Noctor, G., Meinzel, T., & Giglione, C. (2009). Cotranslational proteolysis dominates glutathione homeostasis to support proper growth and development. *Plant Cell* **21**: 3296-3314. (**IF₅=10.5**)
- 4) Giglione, C., Fioulaine, S., & Meinzel, T. (2009). Cotranslational processing mechanisms: towards a dynamic 3D model. *Trends Biochem Sci* **34**, 417-426. (**IF=14.10**)
- 5) Pierre, M., Traverso, J. A., Boisson, B., Domenichini, S., Bouchez, D., Giglione, C., & Meinzel, T. (2007) N-myristoylation regulates the SnRK1 pathway in *Arabidopsis*. *Plant Cell* **19**, 2804-2821. (**IF₅=10.5**)

SELECTED INTERNATIONAL CONFERENCES AS INVITED SPEAKER (2006-2011)

- 1) Meinzel, T. N-terminal Cotranslational Processing: Mechanisms and Functional Relevance. Gordon Research Conferences (GRC); Proteolysis: The Most Important And Ubiquitous Post Translational Modification That Regulates Biology, Life And Death; May 2-7, 2010, Lucca (Barga), Italy
- 2) Meinzel, T. "Trapping conformational states along ligand binding dynamics: the impact of induced-fit on enzyme catalysis". 35th FEBS congress, June 26-June 1, 2010, Göteborg Sweden.
- 3) Meinzel T. Proteomics of post-translational modifications at plant proteins ends: focus on acylation and related modifications. Plant Proteomics Symposium 2009, Columbia (MO, USA) 8-9 Juin 2009
- 4) Meinzel, T. Plant protein lipidation meets proteomics. 18th International Symposium on Plant Lipids (ISPL), Bordeaux, 20-25 Juillet 2008.
- 5) Meinzel, T. Sampling the conformational states involved in the slow tight-binding of a drug to a therapeutic target. International congress "Trends in Enzymology", Saint-Malo, 2-5 juillet 2008
- 6) Meinzel, T. The proteomics of N-terminal methionine excision. 5th General Meeting of the International Proteolysis Society Associated with the International Conference on Protease Inhibitors, Patras, Greece, October 20-24, 2007
- 7) Meinzel, T. Resistance mechanisms to peptide deformylase inhibitors. 47th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Chicago, IL, USA, 17-20 Septembre 2007.
- 8) Meinzel, T. Resistance to Peptide Deformylase Inhibitors. 45th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Washington, DC, USA, 16-20 Décembre 2005.