



PUBLICATIONS AND ABSTRACTS:

I. Papers (12):

1. Lunyak, V.V., **Prefontaine, G.G.**, Nunez, E., Cramer, T., Ju, B.-G., Ohgi, K.A., Hutt, K., Roy, R., Garcia-Diaz, A., Zhu, X., Yung, Y., Montoliu, L., Glass, C.K., Rosenfeld, M.G. (2007) Developmentally-regulated activation of a SINE B2 repeat as a domain insulator in organogenesis. *Science* 317:248-51.
2. Wang, J., Scully, K., Zhu, X., Cai, L. Zhang, J., **Prefontaine, G.G.**, Krones, A., Ohgi, K.A., Zhu, P., Garcia-Bassets, I., Liu, F., Taylor, H., Lozach, J., Jayes, F.L. Korach, K.S., Glass, C.K., Fu, X.-D., Rosenfeld, M.G. (2007) Opposing LSD1 complexes function in developmental gene activation and repression programmes. *Nature* 446:882-7. Epub 2007 Mar 28.
3. Garcia-Bassets, I., Kwon, Y.S., Telese, F., **Prefontaine, G.G.**, Hutt, K.R., Cheng, C.S., Ju, B.G., Ohgi, K.A., Wang, J., Escoubet-Lozach, L., Rose, D.W., Glass, C.K., Fu, X.D., Rosenfeld, M.G. (2007) Histone methylation-dependent mechanisms impose ligand dependency for gene activation by nuclear receptors. *Cell* 128:505-18.
4. Zhu, X, Lin C.R., **Prefontaine, G.G.**, Tollkuhn, J., Rosenfeld, M.G. (2005) Genetic control of pituitary development and hypopituitarism. *Trends in Genetics and Development* 15: 332-40.
5. Lunyak, V.V., **Prefontaine G.G.**, Rosenfeld, M.G. (2004) REST and peace for the neuronal-specific transcriptional program. *Annals of the New York Academy of Sciences* 1014: 110-120.
6. Lunyak, V.V., Burgess, R. Prefontaine G.G., Nelson, C., Sze, S.-H., Chenoweth, J., Shwartz, P., Pevner, P.A., Glass, C., Mandel, G., and Rosenfeld, M.G. (2002) Corepressor-dependent silencing of chromosomal regions encoding neural genes. *Science* 298: 1747-1752.
7. Savory J.G., **Prefontaine G.G.**, Lamprecht C., Liao M., Walther R.F., Lefebvre Y.A., Hache R.J. G. (2001) Glucocorticoid receptor homodimers and glucocorticoid-mineralocorticoid receptor heterodimers form in the cytoplasm through alternative dimerization interfaces. *Molecular and Cellular Biology* 21: 781-793.
8. **Prefontaine, G.G.**, Giffin, W., Walther, R.F., Lemieux, M.E., Pope, L. and Haché, R.J.G. (1999) Selective binding of steroid hormone receptors to octamer transcription factors determines transcriptional synergism at the MMTV promoter. *Journal of Biological Chemistry* 274: 26713-26719.
9. Wang, J.M., **Prefontaine, G.G.**, Lemieux, M.E., Walther, R.F., Pope, L., Akimenko, M.-A. and Haché, R.J.G. (1999) Developmental effects of ectopic expression of the glucocorticoid receptor DNA binding domain that interferes with homeodomain binding. *Molecular and Cellular Biology* 19: 7106-7122.



10. **Prefontaine, G.G.**, Lemieux, M.E., Giffin, W., Schild-Poulter, C., Pope, L., Lacasse, E., Walker, P. and Haché, R.J.G. (1998) Recruitment of octamer transcription factors to DNA by glucocorticoid receptor. *Molecular and Cellular Biology* 18:3416-3430.
11. Giffin, W., Kwast-Welfeld, J., Rodda, D.J., **Prefontaine, G.G.**, Traykova-Andonova, M., Zhang, Y., Weigel, N.L. Lefebvre, Y.A. and Haché, R.J.G. (1997) Sequence-specific DNA binding and transcription factor: Phosphorylation by Ku autoantigen/DNA-dependent protein kinase. *Journal of Biological Chemistry* 272: 5647-5658.
12. Giffin, W., Torrance, H., Rodda, D.J., **Prefontaine, G.G.**, Pope, L. and Haché, R.J.G. (1996) Sequence-specific DNA binding by Ku autoantigen and its effects on transcription. *Nature* 380: 265-268.

II. Abstracts (18):

1. **Prefontaine, G.G.**, Lunyak, V.V., Rosenfeld, M.G. Epigenetic mechanisms influencing pituitary gene expression. Chromatin Structure and Function, Punta Cana, Dominican Republic, 2006. **Selected for an oral presentation.**
2. **Prefontaine, G.G.**, Lunyak, V.V., Tollkuhn, J., Rosenfeld, M.G. The Pit-1 pituitary specific transcription factor is required to initiate and maintain epigenetic programs in a subset of pituitary cell types. Gordon Research Conference in Chromatin Structure and Function, Tilton, NH, 2004.
3. **Prefontaine, G.G.**, Lunyak, V.V., Tollkuhn, J., Burgess, R., Zhang, J., Rose, D., Aggarwal, A., Rosenfeld, M.G. The role of chromatin modifying proteins and associated factors in the modulation of tissue specific gene regulation. Enzymology of Chromatin and Transcription, Keystone Symposia, Santa Fe, New Mexico, 2003.
4. Lunyak, V., Burgess, R., **Prefontaine, G.G.**, Sze, S.-H, Scharz, P., Mandel, G., Pevner, P. and Rosenfeld, M.G. A REST/CoREST complex can serve as a molecular beacon for maintenance of DNA methylation dependent silencing of neural-specific genes. Cancer Epigenetics: DNA Methylation and Chromatin, CNIO Cancer Conferences, Madrid, Spain, 2002. **Selected for an oral presentation.**
5. Wang, J.-M., **Prefontaine, G.G.**, Liao, M., Akimenko, M.-A. and Haché, R.J.G. Development of a far western screen for proteins targeted by dominant negative glucocorticoid hormone receptor peptides that severely perturb early zebrafish development. The Endocrine Society Meeting 2000, Toronto, ON.
6. **Prefontaine, G.G.**, Giffin, W., Lemieux, M.E., Pope, L. and Haché, R.J.G. (1998) Selective binding of steroid hormone receptors to octamer transcription factors determines transcriptional synergism at the MMTV promoter. Hormone Action, Gordon Research Conference, Meriden, NH.



7. **Prefontaine, G.G.**, Lemieux, M.E., Wang, J.-M., Giffin, W., Schild-Poulter, C., Pope, L., Walker, P., Akimenko, M.-A. and Haché, R.J.G. (1997) Recruitment of homeodomain proteins to transcriptional regulatory regions by nuclear hormone receptors. *Mechanisms of Eukaryotic Transcription*, Cold Spring Harbor, NY.
8. **Prefontaine, G.G.**, Lemieux, M.L., Schild-Poulter, C., Pope, L., Traykova-Andonova, M., Walker, P. and Haché, R.J.G. (1997) Gene targeting of homeodomain proteins by nuclear hormone receptors. *EMBO Work Shop: Structure Function of NRs*, International School of Pharmacology, Erice, Italy.
9. Lemieux, M.E., **Prefontaine, G.G.**, Walther, R.F., Pope, L., Huang, Walker, P. and Haché, R.J.G. (1997) Mechanisms of glucocorticoid receptor - octamer protein transcriptional synergy. *The Endocrine Society, 79th Annual Meeting*, Minneapolis, MN.
10. Kwast-Welfeld, J., **Prefontaine, G.G.**, Giffin, W., Zhang, Y., Weigel, N.L., Lefebvre, Y.A. and Haché R.J.G. (1996) DNA sequence-directed phosphorylation of rat glucocorticoid receptor by DNA dependent protein kinase. *The Endocrine Society, 78th Annual Meeting*, San Diego, CA.
11. **Prefontaine, G.G.**, Walker, P., Traykova-Andonova, M., Pope, L. and Haché, R.J.G. (1995) A motif in the DNA binding domain of the glucocorticoid receptor that mediates direct contact with the POU domain of octamer transcription factors *in vivo* is conserved throughout the NR superfamily. *Mechanisms of Eucaryotic Transcription*, Cold Spring Harbor, NY.
12. **Prefontaine, G.G.**, Walker, P., Traykova-Andonova, M., Pope, L. and Haché, R.J.G. (1995) A motif in the DNA binding domain of the glucocorticoid receptor that mediates direct contact with the POU domain of octamer transcription factors *in vivo* is conserved throughout the NR superfamily. *The Endocrinology Society, 77th Annual Meeting*, Washington, DC.
13. Walther, R.F., **Prefontaine, G.G.**, Savory, J.A., Reich, T., Haché, R.J.G., Lefebvre. Temporal regulatio of trancription responsiveness to glucocorticoid hormones is accompanied by reassociation of the glucocorticoid receptor with a chaperone complex. *The Endocrine Society Meeting 2000*, Toronto, ON.
14. Torrance, H., Rodda, D.J., **Prefontaine, G.G.**, Giffin, W. and Haché, R.J.G. (1995) Phosphorylation of the glucocorticoid receptor on the MMTV promoter by DNA-PK is directed through a sequence-specific binding site for Ku autoantigen. *The Endocrine Society, 77th Annual Meeting*, Washington, DC. **Selected for an oral presentation.**
15. **Prefontaine, G.G.**, Walker, P., Traykova-Andonova, M., Pope, L. and Haché, R.J.G. (1995) A motif in the DNA binding domain of the glucocorticoid receptor that mediates direct contact with the POU domain of octamer transcription factors *in vivo* is conserved



- throughout the NR superfamily. Hormone Action, Gordon Research Conference, Meriden, NH.
16. Torrance, H. Rodda, D.J. **Prefontaine, G.G.**, Giffin, W. and Haché, R.J.G. (1995) Ku autoantigen is a transcription factor that represses the induction of Mouse Mammary Tumor Virus transcription by glucocorticoids. Hormone Action, Gordon Research Conference, Meriden, NH.
 17. **Prefontaine, G.G.**, Walker, P., White, T.C., Huang, W., Pope, L. and Haché, R.J.G. (1994) Mapping of the physical association between the glucocorticoid receptor and octamer transcription factor 1. The Endocrine Society, 76th Annual Meeting, Anaheim, CA. **Selected for an oral presentation.**
 18. **Prefontaine, G.G.**, Walker, P., White, T.C., Huang, W., Pope, L. and Haché, R.J.G. (1994) Mapping of the physical association between the glucocorticoid receptor and octamer transcription factor 1. Hormone Action, Gordon Research Conference, Meriden, NH. **Selected for a travel award.**