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### **MAJOR RESEARCH INTERESTS**

1. Molecular Genetics/ Genomics
2. Molecular Endocrinology
3. Genomics
4. Non-alcoholic fatty liver disease (NAFLD)
5. Molecular Medicine
6. Cell and Molecular Biology
7. Cancer Research
8. Drug Development

### **SELECTED PUBLICATIONS**

1. Maruvada P, Baumann CT, Hager GL, Yen PM. Dynamic shuttling and intranuclear diffusion of nuclear hormone receptors. *J Biol Chem* 2003; 278: 12425-12432.
2. Yen PM, Feng X, Flamant F, Chen YD, Samarut J, Refetoff S, Meltzer PS. Effects of Hormonal Status and Thyroid Hormone Receptor (TR) Isoforms on Hepatic Gene Expression Profiles in TR Knockout Mice. *EMBO reports* 2003; 4:581-587.
3. Maruvada P, NI Dmitrieva, J East-Palmer, Yen PM. Differential expression of thyroid hormone receptor during the cell cycle determines sensitivity to thyroid hormone. *Mol Biol Cell* 2004; 15:1895-1903.
4. Jimenez C, Moran SA, Sereti I, Wynne S, Yen PM, Falloon J, Davey RT, Sarlis NJ. Graves' disease after interleukin-2 therapy in a patient with human immunodeficiency virus infection. *Thyroid* 2004; 14:1097-1102.
5. Liu Y, Ando S, Xia X, Yao RF, Kim M, Fondell J, Yen PM. P62, a TFIIH subunit interacts with thyroid hormone receptors (TRs) and enhances T3-mediated transcription. *Mol Endocrinol* 2005; 19:879-884.
6. Shepshelovich J, Goldstein-Magal L, Globerson A, Yen PM, Rotman-Pikielny P, Hirschberg K. Protein synthesis inhibitors and the chemical chaperone TMAO reverse endoplasmic reticulum perturbation induced by overexpression of the iodide transporter pendrin. *J Cell Sci* 2005; 119:1577-1586.
7. Liu Y, Xia X, Fondell JD, Yen PM. Thyroid hormone regulated genes have distinct patterns of co-activator recruitment and histone acetylation. *Mol Endocrinol* 2006; 20:483-490.
8. Harvey CB, Bassett JH, Maruvada P, Yen PM, Williams GR. The rat thyroid hormone receptor (TR) beta3 displays cell-, TR isoform- and thyroid hormone response element specific actions. *Endocrinology* 2007; 148:1764-1773.
9. Hu J, Xia X, Cheng A, Wang G, Luo X, Reed MF, Fojo, T. Oetting A, Gong J, Yen PM. A peptide inhibitor targeting p55PIK PI3K regulatory subunit: a novel cancer therapy. *Molecular Cancer Therapeutics* 2008; 7:3719-3728.

10. Wang D, Xia X, Liu Y, Oetting A, Cole PA, Meltzer P, Shi YB, Yen PM. Negative regulation of a target gene by thyroid hormone involves histone acetylation and corepressor complex dissociation. *Mol Endocrinol* 2009; 23:600-609.
11. Culhane JC, Wang D, Yen PM, Cole PA. Comparative Analysis of Small Molecules and Histone Substrate Analogues as LSD1 Lysine Demethylase Inhibitors. *J Am Chem Soc* 2010 132:3164-76.
12. Wang D, Xia X, Weiss RE, Refetoff S, Yen PM. Distinct and histone-specific modifications mediate positive versus negative transcriptional regulation of TSH $\alpha$  promoter. *PLoS One* 2010 5:e9853.