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## Patrick Leahy CV

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Research Associate  
Dept of Medicine  
Case Western Reserve University  
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Email: [Patrick.Leahy@case.edu](mailto:Patrick.Leahy@case.edu)

**Degrees Held** : BS Hons.(1979), MS (1983), Ph.D.(1989) National University of Ireland.

### **Pertinent Professional Scientific Experience While at CWRU 1996-2018**

- I co-founded, then managed the Gene Expression and Genotyping Facility (GEGF) for 7 years. Trained 4 new hires in bench protocols. Established tracking tools. Developed best lab practices, established QC parameters, consulted with clients, analyzed data, assisted in write up of publications, assisted in peer review rebuttals. I developed, implemented and streamlined protocols for high through-put methodologies for transcriptomics with the Affymetrix expression microarray platform. We also conducted targeted expression studies using PCR, RT-PCR, digital PCR and most recently, cross-disciplinary, PCR-based single cell genomics (Fluidigm).
- 17 years as lead Q.C. and data analysis for transcriptomics at the GEGF. Competent in use of multiple commercial and free-access bioinformatics software tools for expression and sequencing data.
- 17 years of database management (Microsoft Access).
- 17 years Senior expression data analyst for > 150 clients.
- Isolation of DNA, RNA, miRNA including from tissues procured by laser-capture midissection.
- Participation as co-author in writing microarray transcriptomics methods sections of proposals and in peer-reviewed publications as well as rebuttals of critiques of microarray papers.
- Served as coordinator of the Integrated Genomics Shared Resource at CWRU. At the request of Dr Stanton Gerson, Chair of the Cancer Center, I coordinated the services of three concurrent sequencing services at CWRU – the GEGF, RNA Center and Genetics Genomics Core.
- Conducted a whole exome re-sequencing project from start to finish for Dr J. Jacobberger.
- Lead the development of the RT-PCR based Fluidigm C1 single cell transcriptomics analytical capability at the GEGF.
- Assisted with development of Fluidigm Biomark qPCR, RT-PCR, digital PCR systems at the GEGF.
- Grant Writing. Wrote three NIH S10 Shared Instrumentation Grants (SIG). I was awarded \$230,000 to purchase a Leica 7000 LMD laser capture microdissection system.
- Director of Laser Capture Microdissection Services at CWRU 2011-2018.

### **Positions previously held:**

**2015-2018** Staff Scientist, Case Comprehensive Cancer Center  
**2012-2018** Director Laser Capture Microdissection services, Case Comprehensive Cancer center.  
**2013-2015** Faculty (Assistant Professor), Dept of General Medical Sciences – Oncology, CWRU.  
**2010-2013** Coordinator, Case CCC Integrated Genomics Shared Resource (IGSR)  
**2000-2007** Co-founder/Manager Gene Expression and Genotyping Facility  
**1999-2000** Senior Res. Assoc. with Dr. R.W. Hanson, Dept. of Biochemistry at Case.  
**1996-1998** Post doc. with Dr. R.W. Hanson, Dept. of Biochemistry at Case.  
**1994-1995** Post Doc. With Dr. E.F. Rossomondo, Dept of BioStructure and Function, University of Connecticut Health Center, Farmington, CT.  
**1989-1993** R.A. IV., Dr Hedley Freake, Dept. of Nutritional Sciences, University Of Connecticut, Storrs, CT.

**Previous Work Institutions.**

Case Western Reserve University, Cleveland OH. 1996 - 2018  
UCONN Health Center, Farmington, CT. 1994-1995  
University of Connecticut, Storrs, CT. 1989 - 1993

**Positions previously held:**

**2015-2018** Staff Scientist, Case Comprehensive Cancer Center  
**2012-2018** Dir. Laser Capture Microdissection services, Case Comprehensive Cancer center.  
**2013-2015.** Faculty (Assistant Professor), Dept of General Medical Sciences – Oncology, CWRU.  
**2010-2013** Coordinator, Case CCC Integrated Genomics Shared Resource (IGSR)  
**2000-2005** Co-founder/Manager Gene Expression and Genotyping Facility  
**1998-2000** Sen. Res. Assoc. with Dr. R.W. Hanson, Dept. of Biochemistry at Case.  
**1996-1998** Post doc. with Dr. R.W. Hanson, Dept. of Biochemistry at Case.  
**1994-1995** Post Doc. With Dr. E.F. Rossomondo, Dept of BioStructure and Function, University of Connecticut Health Center, Farmington, CT.  
**1989-1993** R.A. IV., Dr Hedley Freake, Dept. of Nutritional Sciences, University Of Connecticut, Storrs, CT.

**Teaching Experience.**

- 1) 12 yrs. teaching a 3 credit-hr graduate level bioinformatics course at CWRU.
- 2) 1-2 class contributions in 6 other graduate level courses at CWRU.
- 3) A weekly lecture series “High through-put Data”, given in the Dept. of Biochemistry,CWRU
- 4) 4 classes of research/reading-studies on metabolism to pre-med. students at CWRU.
- 5) 2 semesters *Introductory Microbiology* at St. Francis School of Nursing in Hartford, CT
- 6) 1 semester of *Introduction to Biology* to undergraduates at the University of Connecticut.
- 7) 2 years Taught field classes in biology to adults, high-school students and some college undergraduates
- 8) Contributed 1-2 classes in 8 other graduate level courses at CWRU over 15 years

<b>Invited Contributions to other Classroom-Based Courses at CWRU.</b>				
<b>Years</b>	<b>Class</b>	<b>Instructor</b>	<b>Department</b>	<b># classes</b>
2014-15	GENE537	Patricia Conrad	Dept of Genetics	1
2010	EPBI 342	Tom Radivoyevitch	Dept. of Epi/Biostat.	1
2010	EPBI414	Shuying Sun	Dept Epi/Biostat	1
2005	GENE 508	Mark Adams	Dept of Genetics,	2
2005-12	PHOL 530	Witold Surewicz	Dept. Physiol/Biophysics	3 (x8yrs)
2002	BIOC 312	Vernon Anderson	Dept. of Biochem	1
2002	BIOC 308	David Samols	Dept. of Biochem	1
2002	EPBI 342	Tom Radivoyevitch	Dept. of Epi/Biostat.	1

## Formal Education

1984-1988 Natl. Univ. of Ireland (Galway) Ph.D.  
1983-1984 Univ. Of Maine at Orono, Maine, U.S.A. Visiting scholar  
1980-1983 Natl. Univ. of Ireland (Galway) M.S.  
1974-1978 Natl. Univ. of Ireland (Cork) B.S. Honours (Biochemistry/Zoology)

## **Bibliography (1<sup>st</sup> author papers highlighted in yellow)**

1. Thiagarajan PS, Wu X, Zhang W, Shi I, Bagai R, **Leahy P**, Feng Y, Veigl M, Lindner D, Danielpour D, Yin L, Rosell R, Bivona TG, Zhang Z, Ma PC. [Transcriptomic-metabolomic reprogramming in EGFR-mutant NSCLC early adaptive drug escape linking TGFβ2-bioenergetics-mitochondrial priming](#). *Oncotarget*. 2016 Dec 13;7(50):82013-82027. doi: 10.18632/oncotarget.13307. PubMed PMID: 27852038.
2. Lassance L, Haghiaç M, **Leahy P**, Basu S, Minium J, Zhou J, Reider M, Catalano PM, Hauguel-de Mouzon S. [Identification of early transcriptome signatures in placenta exposed to insulin and obesity](#). *Am J Obstet Gynecol*. 2015 May;212(5):647.e1-11. doi: 10.1016/j.ajog.2015.02.026. PubMed PMID: 25731694;
3. Lotti F, Jarrar AM, Pai RK, Hitomi M, Lathia J, Mace A, Gantt GA Jr, Sukhdeo K, DeVecchio J, Vasanji A, **Leahy P**, Hjelmeland AB, Kalady MF, Rich JN. [Chemotherapy activates cancer-associated fibroblasts to maintain colorectal cancer-initiating cells by IL-17A](#). *J Exp Med*. 2013 Dec 16;210(13):2851-72. doi: 10.1084/jem.20131195. PubMed PMID: 24323355; PubMed Central PMCID: PMC3865474.
4. Ouyang Z, Chen Z, Ishikawa M, Yue X, Kawanami A, **Leahy P**, Greenfield EM, Murakami S. [Prx1 and 3.2kb Col1a1 promoters target distinct bone cell populations in transgenic mice](#). *Bone*. 2013 Oct 25. pii: S8756-3282(13)00426-2. doi: 10.1016/j.bone.2013.10.016. [Epub ahead of print] PubMed PMID: 24513582;
5. Kim Y, Wu Q, Hamerlik P, Hitomi M, Sloan AE, Barnett GH, Weil RJ, **Leahy P**, Hjelmeland AB, Rich JN. [Aptamer identification of brain tumor-initiating cells](#). *Cancer Res*. 2013 Aug 1;73(15):4923-36. doi: 10.1158/0008-5472.CAN-12-4556. PubMed PMID: 23796560; PubMed Central PMCID: PMC3933790.
6. Leidner RS, Ravi L, **Leahy P**, Chen Y, Bednarchik B, Streppel M, Canto M, Wang JS, Maitra A, Willis J, Markowitz SD, Barnholtz-Sloan J, Adams MD, Chak A, Guda K. [The microRNAs, MiR-31 and MiR-375, as candidate markers in Barrett's esophageal carcinogenesis](#). *Genes Chromosomes Cancer*. 2012 May;51(5):473-9. doi: 10.1002/gcc.21934. PubMed PMID: 22302717; PubMed Central PMCID: PMC3547654.
7. Basu S, **Leahy P**, Challier JC, Minium J, Catalano P, Hauguel-de Mouzon S. [Molecular phenotype of monocytes at the maternal-fetal interface](#). *Am J Obstet Gynecol*. 2011 Sep;205(3):265.e1-8. doi: 10.1016/j.ajog.2011.06.037. PubMed PMID: 22071058; PubMed Central PMCID: PMC3217185.
8. Mahabeleshwar GH, Kawanami D, Sharma N, Takami Y, Zhou G, Shi H, Nayak L, Jeyaraj D, Grealy R, White M, McManus R, Ryan T, **Leahy P**, Lin Z, Haldar SM, Atkins GB, Wong HR, Lingrel JB, Jain MK. [The myeloid transcription factor KLF2 regulates the host response to polymicrobial infection and endotoxic shock](#). *Immunity*. 2011 May 27;34(5):715-28. doi: 10.1016/j.immuni.2011.04.014. Erratum in: *Immunity*. 2011 Jul 22;35(1):146. PubMed PMID: 21565532; PubMed Central PMCID: PMC3103656.
9. Basu A, Alder H, Khiyami A, **Leahy P**, Croce CM, Haldar S. [MicroRNA-375 and MicroRNA-221: Potential Noncoding RNAs Associated with Antiproliferative Activity of Benzyl Isothiocyanate in Pancreatic Cancer](#). *Genes Cancer*. 2011 Feb;2(2):108-19. doi: 10.1177/1947601911409212. PubMed PMID: 21779484; PubMed Central PMCID: PMC3111247.

10. Wylie CJ, Hendricks TJ, Zhang B, Wang L, Lu P, **Leahy P**, Fox S, Maeno H, Deneris ES. [Distinct transcriptomes define rostral and caudal serotonin neurons](#). J Neurosci. 2010 Jan 13;30(2):670-84. doi: 10.1523/JNEUROSCI.4656-09.2010. PubMed PMID: 20071532; PubMed Central PMCID: PMC3403750.
11. Kusner LL, Young A, Tjoe S, **Leahy P**, Kaminski HJ. [Perimysial fibroblasts of extraocular muscle, as unique as the muscle fibers](#). Invest Ophthalmol Vis Sci. 2010 Jan;51(1):192-200. doi: 10.1167/iovs.08-2857. PubMed PMID: 19661226; PubMed Central PMCID: PMC2869047.
12. Weitzel RP, Lesniewski ML, Haviernik P, Kadereit S, **Leahy P**, Greco NJ, Laughlin MJ. [microRNA 184 regulates expression of NFAT1 in umbilical cord blood CD4+ T cells](#). Blood. 2009 Jun 25;113(26):6648-57. doi: 10.1182/blood-2008-09-181156. PubMed PMID: 19286996; PubMed Central PMCID: PMC2710921.
13. Strunk CJ, Platzbecker U, Thiede C, Schaich M, Illmer T, Kang Z, **Leahy P**, Li C, Xie X, Laughlin MJ, Lazarus HM, Gerson SL, Bunting KD, Ehninger G, Tse W. [Elevated AFIq expression is a poor prognostic marker for adult acute myeloid leukemia patients with normal cytogenetics](#). Am J Hematol. 2009 May;84(5):308-9. doi: 10.1002/ajh.21396. PubMed PMID: 19396856.
14. Maeda T, Maeda A, **Leahy P**, Saperstein DA, Palczewski K. [Effects of long-term administration of 9-cis-retinyl acetate on visual function in mice](#). Invest Ophthalmol Vis Sci. 2009 Jan;50(1):322-33. doi: 10.1167/iovs.08-2301. PubMed PMID: 18708622; PubMed Central PMCID: PMC2615069.
15. Tipps RS, Mumtaz M, **Leahy P**, Duncan BW. [Gene array analysis of a rat model of pulmonary arteriovenous malformations after superior cavopulmonary anastomosis](#). J Thorac Cardiovasc Surg. 2008 Aug;136(2):283-9. doi: 10.1016/j.jtcvs.2008.02.011. PubMed PMID: 18692629.
16. Wlodarski MW, Nearman Z, Jankowska A, Babel N, Powers J, **Leahy P**, Volk HD, Maciejewski JP. [Phenotypic differences between healthy effector CTL and leukemic LGL cells support the notion of antigen-triggered clonal transformation in T-LGL leukemia](#). J Leukoc Biol. 2008 Mar;83(3):589-601. PubMed PMID: 18086899; PubMed Central PMCID: PMC2629660.
17. Anne S, Kisley LB, Tajuddin ST, **Leahy P**, Alagramam KN, Megerian CA. [Molecular changes associated with the endolymphatic hydrops model](#). Otol Neurotol. 2007 Sep;28(6):834-41. PubMed PMID: 17468674.
18. van Lunteren E, **Leahy P**. [Gene expression microarrays and respiratory muscles](#). Respir Physiol Neurobiol. 2007 May 14;156(2):103-15. Review. PubMed PMID: 17185048.
19. Maeda A, Maeda T, Golczak M, Imanishi Y, **Leahy P**, Kubota R, Palczewski K. [Effects of potent inhibitors of the retinoid cycle on visual function and photoreceptor protection from light damage in mice](#). Mol Pharmacol. 2006 Oct;70(4):1220-9. PubMed PMID: 16837623; PubMed Central PMCID: PMC4106413.
20. Sheffler DJ, Kroeze WK, Garcia BG, Deutch AY, Hufeisen SJ, **Leahy P**, Brüning JC, Roth BL. [p90 ribosomal S6 kinase 2 exerts a tonic brake on G protein-coupled receptor signaling](#). Proc Natl Acad Sci U S A. 2006 Mar 21;103(12):4717-22. PubMed PMID: 16537434; PubMed Central PMCID: PMC1450237.
21. van Lunteren E, Moyer M, **Leahy P**. [Gene expression profiling of diaphragm muscle in alpha2-laminin \(merosin\)-deficient dy/dy dystrophic mice](#). Physiol Genomics. 2006 Mar 13;25(1):85-95. PubMed PMID: 16368874.
22. Cheng G, Merriam AP, Gong B, **Leahy P**, Khanna S, Porter JD. [Conserved and muscle-group-specific gene expression patterns shape postnatal development of the novel extraocular muscle phenotype](#). Physiol Genomics. 2004 Jul 8;18(2):184-95. PubMed PMID: 15138310.
23. Boeshore KL, Schreiber RC, Vaccariello SA, Sachs HH, Salazar R, Lee J, Ratan RR, **Leahy P**, Zigmond RE. [Novel changes in gene expression following axotomy of a sympathetic ganglion: a microarray analysis](#). J Neurobiol. 2004 May;59(2):216-35. PubMed PMID: 15085539.

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26. Mishra R, **Leahy P**, Simonson MS. [Gene expression profile of endothelin-1-induced growth in glomerular mesangial cells.](#) Am J Physiol Cell Physiol. 2003 Nov;285(5):C1109-15. PubMed PMID: 12853287.
27. Porter JD, Merriam AP, **Leahy P**, Gong B, Khanna S. [Dissection of temporal gene expression signatures of affected and spared muscle groups in dystrophin-deficient \(mdx\) mice.](#) Hum Mol Genet. 2003 Aug 1;12(15):1813-21. PubMed PMID: 12874102.
28. Khanna S, Merriam AP, Gong B, **Leahy P**, Porter JD. [Comprehensive expression profiling by muscle tissue class and identification of the molecular niche of extraocular muscle.](#) FASEB J. 2003 Jul;17(10):1370-2. PubMed PMID: 12832294.
29. Porter JD, Merriam AP, Khanna S, Andrade FH, Richmonds CR, **Leahy P**, Cheng G, Karathanasis P, Zhou X, Kusner LL, Adams ME, Willem M, Mayer U, Kaminski HJ. [Constitutive properties, not molecular adaptations, mediate extraocular muscle sparing in dystrophic mdx mice.](#) FASEB J. 2003 May;17(8):893-5. PubMed PMID: 12670877.
30. Parimi PS, Croniger CM, **Leahy P**, Hanson RW, Kalhan SC. [Effect of reduced maternal inspired oxygen on hepatic glucose metabolism in the rat fetus.](#) Pediatr Res. 2003 Feb;53(2):325-32. PubMed PMID: 12538794.
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32. Porter JD, Khanna S, Kaminski HJ, Rao JS, Merriam AP, Richmonds CR, **Leahy P**, Li J, Guo W, Andrade FH. [A chronic inflammatory response dominates the skeletal muscle molecular signature in dystrophin-deficient mdx mice.](#) Hum Mol Genet. 2002 Feb 1;11(3):263-72. PubMed PMID: 11823445.
33. Chakravarty K, **Leahy P**, Becard D, Hakimi P, Foretz M, Ferre P, Fougelle F, Hanson RW. [Sterol regulatory element-binding protein-1c mimics the negative effect of insulin on phosphoenolpyruvate carboxykinase \(GTP\) gene transcription.](#) J Biol Chem. 2001 Sep 14;276(37):34816-23. PubMed PMID: 11443121.
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36. Croniger C, **Leahy P**, Reshef L, Hanson RW. [C/EBP and the control of phosphoenolpyruvate carboxykinase gene transcription in the liver.](#) J Biol Chem. 1998 Nov 27;273(48):31629-32. Review. PubMed PMID: 9822619.
37. Saker F, Ybarra J, **Leahy P**, Hanson RW, Kalhan SC, Ismail-Beigi F. [Glycemia-lowering effect of cobalt chloride in the diabetic rat: role of decreased gluconeogenesis.](#) Am J Physiol. 1998 Jun;274(6 Pt 1):E984-91. PubMed PMID: 9611146.

38. Crawford DR, **Leahy P**, Hu CY, Chaudhry A, Gronostajski R, Grossman G, Woods J, Hakimi P, Roesler WJ, Hanson RW. [Nuclear factor I regulates expression of the gene for phosphoenolpyruvate carboxykinase \(GTP\)](#). *J Biol Chem*. 1998 May 29;273(22):13387-90. PubMed PMID: 9593667.
39. **Leahy P**, Carmichael GG, Rossomando EF. [Transcription from plasmid expression vectors is increased up to 14-fold when plasmids are transfected as concatemers](#). *Nucleic Acids Res*. 1997 Jan 15;25(2):449-50. PubMed PMID: 9016578; PubMed Central PMCID: PMC146435.
40. **Leahy P**, Carmichael GG, Rossomando EF. [Novel biotinylated plasmid expression vectors retain biological function and can bind streptavidin](#). *Bioconjug Chem*. 1996 Sep-Oct;7(5):545-51. PubMed PMID: 8889015.
41. Kim TS, Leahy P, Freake HC. [Promoter usage determines tissue specific responsiveness of the rat acetyl-CoA carboxylase gene](#). *Biochem Biophys Res Commun*. 1996 Aug 14;225(2):647-53. PubMed PMID: 8753813.
42. **Leahy P**, Carmichael GG, Rossomando EF. [Effects of ethanol concentration and incubation period at 65 degrees C on CAT activity in mammalian cell extracts](#). *Biotechniques*. 1995 Dec;19(6):894-8. PubMed PMID: 8747651.
43. Blennemann B, **Leahy P**, Kim TS, Freake HC. [Tissue-specific regulation of lipogenic mRNAs by thyroid hormone](#). *Mol Cell Endocrinol*. 1995 Apr 28;110(1-2):1-8. PubMed PMID: 7672439.
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### **Book Chapter**

Porter, JD, **Leahy, P**, Khanna, S, Cheng, G and Veigl, M. (2003). Applicability and practice of genome-wide expression profiling: insights from studies of skeletal muscle diversity and disease mechanisms. In: Perspectives in Gene Expression. K. Appasani, ed., Eaton Publication Group, Westboro, MA. ISBN 1-881299-16-3

### **Abstracts**

- Leahy, P**, Clark, N, Dasarathy, S, McCullough, AJ and Dodig, M. (2008). Differences in gene expression in periportal acinar zones in livers from insulin resistant L-SACC1 mice. American Association for the study of Liver Diseases, Digestive Diseases Week (submitted Dec. 2008).
- Strunk, JC, Platzbecker, U, Thiede, C, Schaich, MA, Illmer, T, Kang, Z, **Leahy, P**, Li, C, Reiner, S, Laughlin, MJ, Lazarus, HM, Bunting, KD, Gerson, SL, Ehninger, and Tse, WW. (2005). AF1q Is a Novel Poor Prognostic Marker for Adult Acute Myelogenous Leukemia (AML) Patients with Normal Cytogenetics. *Blood (ASH Annual Meeting Abstracts)*, Nov 2005; 106: 3294
- Mishra, R, **Leahy, P** and Simonson, M. (2003) Endothelin-1 Induced Gene Expression Profile in Mesangial Cells: Induction of HB-EGF is Required for Proliferation. A953 *Faseb J*,
- Porter, JD, Merriam, AP, Khanna, S, Kaminski, HJ, Richmonds, CR, **Leahy, P**, Cheng, G, Karathanasis, P, Zhou, X, Kushner, LL, Andrade, FH, Adams, ME, Willem, M and Mayer U. (2002). Constitutive properties, not cellular/molecular adaptations, mediate extraocular muscle sparing in mdx mice. *Journal of the Neurological Sciences* 199 (Suppl. 1): S47,.
- Porter, JD, Khanna, S, Merriam, AP, **Leahy, P**, Kuhn D.E. and Rafael J.A.. (2002) Gene expression signatures in double mutant mice establish distinct functional roles for dystrophin and utrophin in hindlimb versus extraocular muscle. *Journal of the Neurological Sciences* 199 (Suppl. 1): S36,.
- Porter, JD, Khanna, S, Kaminski, HJ, Rao, JS, Merriam, AP, Richmonds, CR, **Leahy, P**, Li, J and Andrade FH. (2001). A chronic inflammatory response dominates the skeletal muscle molecular signature in dystrophin-deficient mice. *Molecular Biology of the Cell* 12: 41a.
- Cheng, G, Khanna, S, Merriam, AP, **Leahy, P**, Andrade, FH and Porter, JD. (2002) Genome-wide profiles of developing muscle: patterned extraocular-leg differences in rate-limiting and disease-related metabolic enzyme expression. *Journal of the Neurological Sciences* 199 (Suppl. 1): S82.
- Cheng, G, Khanna, S, Merriam, AP, **Leahy, P**, Andrade, FH and Porter, JD. (2002) Developmental gene expression profile underlying divergence of extraocular from other skeletal muscles. *Annual meeting of the Association for*

*Research in Vision and Ophthalmology*, abstract available at:

<http://www.arvo.org/abstracts.htm> <<http://www.arvo.org/abstracts.htm>> .

- Khanna, S, AP, Merriam, **Leahy, P**, Andrade, FH, and Porter JD. (2002) Diversity of muscle tissue class signatures by genome-wide profiling: is extraocular muscle a separate class? *Annual meeting of the Association for Research in Vision and Ophthalmology*, abstract available at: <http://www.arvo.org/abstracts.htm> <<http://www.arvo.org/abstracts.htm>> .
- Chakravarty, K, **Leahy, P**, Fekter, T, Foufelle, F, Ferre, P, and Hanson RW. (2001) Role of Sterol Regulatory Element-Binding Protein in insulin regulation of Transcription of the phosphoenolpyruvate carboxykinase gene. *Faseb J.* 15: A209
- Chakravarty, K, **Leahy, P**, and Hanson R W. (2000) Development of a model for the mechanism of transcriptional synergy of the PEPCK “Enhanceosome”. *Faseb J.* 14: A1445
- Parimi, P, **Leahy, P**, Croniger, C, Hanson, R and Kalhan, S. (2000) *Pediatric Research* 47(4) 294A
- Leahy, P**, Chackravarty, K, Gronostajski, RM and Hanson, RW. (1999). CBP and Nuclear Factor I regulate P-enolpyruvate carboxykinase gene transcription. *FASEB J.*, 13, A1374
- Kim, TS, **Leahy P** and Freake, HC. (1995). Promoter usage determines tissue specific responsiveness of rat Acetyl-CoA Carboxylase. *FASEB J.*, 9: A469, p 2716.
- Leahy, P**, Carmichael, GC and Rossomondo, EF. (1995). Novel plasmid constructs for general and receptor mediated transfections. *FASEB J.*, 9: A1400
- Leahy, P**, Carmichael, GC and Rossomondo, EF. (1995). Novel plasmid constructs for general and receptor mediated transfections. *FASEB J.*, 9: A1400.
- Leahy, P** and Laufer, H. (1993). Defining a molecular role for methyl farnesoate in the regulation of crustacean reproduction. *Proceedings of the National Seagrass Workshop on Crustacean Endocrinology/Reproductive Biology*. NOAA, Silver Spring, MD,
- Laufer, H and **Leahy, P**, 1993. Endocrinology of Crustacean Resources. *Proceedings of the National Seagrass Workshop on Crustacean Endocrinology/Reproductive Biology*. NOAA, Silver Spring, MD.

## Posters

- Golubic M, Bondar J, **Leahy P**, Fox JEB and Barnett, GH. Induction of Apoptosis and Gene Expression in Glioblastoma Cells by a Mixture of Standardized Extracts from Common Herbs and Spices. *Society for Integrative Oncology 2<sup>nd</sup> International conference. Multi-disciplinary Advances in Integrative Oncology #30*
- Golubic, M, Bondar, J, **Leahy, P**, Safayhi, H, Fox JEB and Barnett, GH. Elucidation of Anti-inflammatory Properties of 5-Lipoxygenase Inhibitor Acetyl-11-Keto-Beta-Boswellic Acid (AKBA): Microarray Findings in a Glioblastoma Cell Line. *Society for Integrative Oncology 2<sup>nd</sup> International conference. Multi-disciplinary Advances in Integrative Oncology #31*
- Golubic, M, Bondar, J, **Leahy P**, Fox, JEB and Barnett, GH. Global gene expression changes in glioblastoma cell line U87 by Zyflamend, a mixture of standardized extracts from common herbs and spices. *Bruce Ames International Symposium on Nutritional Genomics*”, October 22-24, 2004, at the UC Davis, Davis, CA.

## Grant Writing Activities/Involvement

- 2013 I was awarded \$230,000 for a Shared Instrumentation Grant (SIG) from NIH. Moneys were used to purchase a Leica LMD 7000 Laser Capture Microdissection system and to establish a service at CWRU.
- 2009 Named co-investigator with Erik van Lutneren, VA, Cleveland. “Gene Expression Responses to Pulmonary Rehabilitation” 10% salary coverage.
- 2008 Named c-investigator with Jill Barnholtz-Sloan, Ph.D \* (Epidemiology and Biostatistics) “Ohio Brain Tumor Study (OBTS).” No salary coverage.
2005. Named Co-Investigator with Dr. Mary Laughlin competitive renewal grant-“ Molecular Mechanisms Underlying Graft vs Host Disease.” Submitted to NIH requesting \$250,000. 10% salary coverage for Dr Leahy. Funded.

2005. Named Co-investigator on Drs. Paniotis Savvides and Kumar Alagramam grant requesting ~\$25,000 for 1 year. (ACS IRG- Pilot project grant: "Molecular anatomy of head and neck Cancer.") Not funded.

2003. Veigl, M.L. 2003. ~\$500,000. Funded. Assisted in preparation of NCRN SIG (RR-03-002) 2003