

Peer-reviewed articles:

1. Candelas, G.C., Ortiz, A., and **Molina, C.A.**: The Cylindrical or Tubiliform Glands of *Nephila Clavipes*. *The Journal of Experimental Zoology* 237, 281-285, (1986).
2. **Molina, C.A.** and Ashendel, C.L.: Tumor Promoter 12-O-Tetradecanoylphorbol-13-Acetate And Sn-1, 2-Dioctanoylglycerol Increase The Phosphorylation of Protein Kinase C In Cells. *Cancer Research* 51, 4624-4630, (1991).
3. **Molina, C.A.**, Foulkes, N.S., Lalli, E., and Sassone-Corsi, P.: Inducibility And Negative Autoregulation of CREM: An Alternative Promoter Directs The Expression of ICER, An Early Response Repressor. *Cell* 75, 875-886, (1993).
4. Stehle, J.H., Foulkes, N.S., **Molina, C.A.**, Simonneaux, V., Pevet, P., and Sassone-Corsi, P.: Adrenergic Signals Direct Rhythmic Expression of Transcriptional Repressor CREM In the Pineal Gland. *Nature* 365, 314-320, (1993).
5. Desdouets, C., Matesic, G., **Molina, C.A.**, Foulkes, N.S., Sassone-Corsi, P., Brechot, C. and Sobczak-Thepot, J. Cell Cycle Regulation of Cyclin A Expression by the Cyclic AMP-Responsive Transcription Factors CREB and CREM. *Mol. Cell. Biol.* 15:3301-3309, (1995).
6. Lamas, M., **Molina, C.A.**, Foulkes, N.S., Jansen, E. and Sassone-Corsi, P. Ectopic ICER Expression in Pituitary Corticotroph AtT20 Cells: Effects on Morphology, Cell Cycle and Hormonal Production. *Mol. Endocrinol.* 11:1425-1434 (1997). 43 citations as of 01/17/2017.
7. Razavi, R., Ramos, J.C., Yehia, G., Schlotter, F. and **Molina, C.A.** ICER-IIg is a Tumor Suppressor that Mediates the Antiproliferative Activity of cAMP. *Oncogene* 17:3015-3019 (1998).
8. Maronde, E., Pfeffer, M., Olcese, J., **Molina, C.A.**, Schlotter, F., Dehghani, Korf, H.W. and Stehle, J.H. Transcription Factors in Neuroendocrine Regulation: Rhythmic Changes in pCREB and ICER Levels Frame Melatonin Synthesis. *J. Neuroscience* 19:3326-3336 (1999).
9. Pfeffer, M., Maronde, E., **Molina, C.A.**, Korf H.W.- and Jörg H. Stehle. Inducible Cyclic AMP Early Repressor Protein in Rat Pinealocytes: A Highly Sensitive Natural Reporter for Regulated Gene Transcription. *Mol. Pharmacology* 56:279-289 (1999).
10. Santiago, F., Clark, E., Chong, S., **Molina, C.A.**, Mozafari, F., Mahieux,

R., Fujii, M., Azimi, N., and Kashanchi F. Transcriptional Up-regulation of Cyclin D2 Gene and Acquisition of New CDK Partners in Human T-Cell Leukemia Virus Type 1-Infected Cells. *J. Virology* 73:9917-9927 (1999).

11. Santoro, N., Goldsmith, L.T., Heller, D., Illsley, N., McGovern, P., **Molina, C.A.**, Peters, S., Skurnick, J.H., Forst, C., and Weiss, G. Luteal Progesterone Relates to Histological Endometrial Maturation in Fertile Women. *Journal of Clinical Endocrinology & Metabolism*. 85:4207-4211 (2000).
12. Qian, J., Yehia, G., **Molina C.A.**, Fernandes, A., Donnelly, R.J., Anjaria, D.J. Gascon, P., and Rameshwar, P. Cloning of Human Preprotachykin-I Promoter and the Role of Cyclic Adenosine 5'-Monophosphate Response Elements in Its Expression by IL-1 Stem Cell Factor. *J. Immunology* 166:2553-2561 (2001).
13. Yehia, G., Razavi, R., Memin, E., Schlotter, F., and **Molina, C.A.** The Expression of Inducible cAMP Early Repressor (ICER) is Altered in Prostate Cancer Cells and Reverses the Transformed Phenotype of the LNCaP Prostate Tumor cell line. *Cancer Research* 61: 6055-6059 (2001).
14. Yehia, G., Schlotter, F., Razavi, R., Alessandrini, A. and **Molina, C.A.** MAP Kinase Phosphorylates and Targets Inducible cAMP Early Repressor to Ubiquitin-Mediated Destruction. *J. Biol. Chem.* 276: 35272-35279 (2001).
15. Huening, M., Yehia, G., **Molina, C.A.**, and Christakos, S. Evidence for a Regulatory Role of Inducible Cyclic Adenosine 3'5'-Monophosphate Early Repressor (ICER) in Protein Kinase A Enhancement of Vitamin D Receptor Expression and Modulation of Hormone Action. Michel Huening, Ghassan Yehia, Carlos A. Molina, and Sylvia Christakos. *Mol. Endocrinol.* 16:2052-2064 (2002).
16. Memin, E., Yehia, G., Razavi, R. and **Molina, C.A.** ICER Reverses Tumorigenesis of Rat Prostate Tumor Cells without Affecting Cell Growth. *Prostate* 53: 225-231 (2002).
17. Nervina, J.M. Tetradis, S., Huang, Y.-F., Harrison D., **Molina, C.A.**, and Kream, B.E. Expression of Inducible cAMP Early repressor is coupled to the cAMP-protein kinase A signaling pathway in osteoblasts. *Bone*, 32: 483-490 (2003).
18. Yamamoto, S., Hong, C., Zablocki, D., Liu, J., Kim, S-J., Soler, S., Yang, G., Yehia, G., **Molina, C.A.**, Vatner, S.F., and Sadoshima, J. Activation of Mst1 causes dilated cardiomyopathy by stimulating apoptosis without

compensatory ventricular myocyte hypertrophy. *J. Clin Invest.* 111: 1463-1474 (2003).

19. Tomita, H., Nazmy, M., Kajimoto, K., Yehia, G., **Molina, C.A.**, and Sadoshima, J., Inducible cAMP early repressor (ICER) is a negative feedback regulator of cardiac hypertrophy and an important mediator of cardiac myocyte apoptosis in response to b-adrenergic receptor stimulation. *Circ Res.* 93:12-22 (2003).
20. Huang, H.F.S., Wang, S., **Molina, C.A.**, Ottenweller, J.E. Preservation of spermatogenesis in spinal cord injured rats with exogenous testosterone. Relationship with serum testosterone levels and cellular localization of cAMP responsive element modulator. *Journal of Andrology* 25:95-103, (2004).
21. Kell, C.A., Dehghani, F., Wicht, H., **Molina, C.A.**, Korf, H.-W., and Stehle, J.H. Distribution of transcription factor ICER (Inhibitory cyclicAMP Early Repressor) in rodent brain and pituitary. *Journal of Comparative Neurology* 478:379-394, (2004).
22. Ding, B., Abe, J., Wei, H., Huang, Q., Walsh, R.A., **Molina C.A.**, Zhao, A., Sadoshima , J., Blaxall, B.C., Berk, B.C., and Yan, C. Functional Role of Phosphodiesterase 3 in cardiomyocyte apoptosis Implication in Heart Failure. *Circulation Research* 111:2469-2476 (2005).
23. Ding, B., Abe, J., Wei, H., Che W., Aizawa, T., **Molina C.A.**, Sadoshima , J., Blaxall, B.C., Berk, B.C., and Yan, C. A Positive Feedback Loop of Phosphodiesterase 3 (PDE3) and Inducible cAMP Early Repressor (ICER) Leads to Persistent ICER Induction and Cardiomyocyte Apoptosis. *Proceeding of National Academy of Science* 102:14771-14776 (2005).
24. Muñiz, L. Yehia, G., Mémin, E., Pillarisetty, R., and **Molina, C.A.** Transcriptional Regulation of Cyclin D2 by the PKA Pathway and Inducible cAMP Early Repressor (ICER) in Granulosa Cells. *Biology of Reproduction* 75:279-288 (2006).
25. Yan, C., Ding, B., Shishido, T., Woo, C-H., Itoh, S., Jeon, K-I., Liu, W., Xu, H., McClain, C., **Molina, C.A.**, Blaxall, B.C., Abe J. Activation of ERK5 reduces cardiac apoptosis and dysfunction via inhibition of a PDE3A-ICER feedback loop. *Circulation Research* 100:510-519 (2007).
26. Harzenetter, M.D., Novotny, A.R., Gais, P., **Molina, C.A.**, Altmayr, F., and Holzmann, B. Negative regulation of TLR responses by the neuropeptide CGRP is mediated by the transcriptional repressor ICER. *The Journal of Immunology* 179:607-615 (2007).
27. Corcoran, K.E., Malhotra, A., **Molina, C.A.** and Rameshwar, P. Stromal-

derived factor-1 α induces a non-canonical pathway to activate endocrine-linked *Tac1* gene in non-tumorigenic breast cells. *Journal of Molecular Endocrinology* 40:113-123 (2008).

28. Shishido, T., Woo, C-H., Ding, B., McClain, C., **Molina, C.A.**, Yan, C., Yang, J., and Abe, J. Effect of MEK5/ERK5 association on Small Ubiquitin-Related Modification of ERK5: Implications for diabetic ventricular dysfunction after myocardial infarction. *Circulation Research* 102:1416-1425 (2008).
29. Woo, C-H., Le, N-T., Shishido, T., Chang, E., Lee, H., Heo, K-S., Mickelsen, D.M., Lu, Y., McClain, C., Spangenberg, T., Yan, C., **Molina, C.A.**, Yang, J., Patterson, C. and Abe, J. Novel role of C terminus of Hsc70-interacting protein (CHIP) ubiquitin ligase on inhibiting cardiac apoptosis and dysfunction via regulating ERK5-mediated degradation of inducible cAMP early repressor. *FASEB J.* 24: 4917-4928 (2010).
30. Mémin, E., Genzale, M., Crow, M and **Molina C.A.** Evidence that phosphorylation by the mitotic kinase Cdk1 promotes ICER monoubiquitination and nuclear delocalization. *Experimental Cell Research* 317: 2490-2502 (2011).
31. Le, N-T., Takei, Y., Shishido, T., Woo, C-H., Chang, E., Heo, K-S., Lee, H., Lu, Y., Morrell, C., Oikawa, M., McClain, C., Wang, X., Tournier, C., **Molina, C.A.**, Vorojeikina, D., Cohen, M.S., Serafimova, I.M., Taunton, J., Fujiwara, K., Yan, C., Patterson, C., Yang, J., and Abe, J. p90RSK targets the ERK5-CHIP ubiquitin E3 ligase activity in diabetic hearts and promotes cardiac apoptosis and dysfunction. *Circulation Research* 110: 536-550 (2012).
32. Healey, M., Crow, M.S., **Molina, C.A.** Ras-induced Melanoma transformation is associated with the proteasomal degradation of the tumor-suppressor ICER. *Molecular Carcinogenesis* 52:692-704 (2013).
33. Muniz, L. and **Molina, C.A.** The transcriptional repressor ICER binds to multiple loci throughout the genome. *Biochemical and Biophysical Research Communications* 478:1462-1465 (2016).
34. Greco, S.J., Yehia, G., Potian, J.A., **Molina, C.A.** and Rameshwar, P. Constitutive Expression of Inducible Cyclic Adenosine Monophosphate Early Repressor (ICER) in Cycling Quiescent Hematopoietic Cells: Implications for Aging Hematopoietic Stem Cells. *Stem Cell Reviews and Reports* Published on line 11/08/2016.