

## References

1. Gouveri, E., Papanas, N., I. Hatzitolios, A. & Maltezos, E. Breastfeeding and Diabetes. *Current Diabetes Reviews* **7**, 135–142 (2011).
2. González-Jiménez, E., García, P. A., Aguilar, M. J., Padilla, C. A. & Álvarez, J. Breastfeeding and the prevention of breast cancer: a retrospective review of clinical histories. *Journal of Clinical Nursing* **23**, 2397–2403 (2014).
3. Goldman, A. S., Hopkinson, J. M. & Rassin, D. K. Benefits and Risks of Breastfeeding. *Advances in Pediatrics* **54**, 275–304 (2007).
4. Stuebe, A. The risks of not breastfeeding for mothers and infants. *Rev Obstet Gynecol* **2**, 222–231 (2009).
5. Jallad, Raquel Soares, Glezer, Andrea, Machado, Marcio Carlos & Bronstein, Marcello D. Chapter 18 - Pituitary Disorders During Pregnancy and Lactation. in *Maternal-Fetal and Neonatal Endocrinology* 259–286 (Academic Press, 2020).
6. Hodson, C. A. Prolactin. in *Handbook of Endocrinology, Second Edition, Volume I* (CRC Press, 1996).
7. Lloyd, R. V. Estrogen-induced hyperplasia and neoplasia in the rat anterior pituitary gland. An immunohistochemical study. *Am J Pathol* **113**, 198–206 (1983).
8. Walters, D. D., Phan, L. T. H. & Mathisen, R. The cost of not breastfeeding: global results from a new tool. *Health Policy and Planning* **34**, 407–417 (2019).
9. Mondal, S. & Thompson, P. R. Protein Arginine Deiminases (PADs): Biochemistry and Chemical Biology of Protein Citrullination. *Acc Chem Res* **52**, 818–832 (2019).
10. György, B., Tóth, E., Tarcsa, E., Falus, A. & Buzás, E. I. Citrullination: A posttranslational modification in health and disease. *The International Journal of Biochemistry & Cell Biology* **38**, 1662–1677 (2006).
11. Stuebe, A. M. *et al.* Prevalence and risk factors for early, undesired weaning attributed to lactation dysfunction. *J Womens Health (Larchmt)* **23**, 404–412 (2014).
12. Hurst, N. M. Recognizing and treating delayed or failed lactogenesis II. *J Midwifery Womens Health* **52**, 588–594 (2007).
13. Kauppila, A., Chatelain, P., Kirkinen, P., Kivinen, S. & Ruokonen, A. Isolated prolactin deficiency in a woman with puerperal alactogenesis. *J Clin Endocrinol Metab* **64**, 309–312 (1987).
14. Powe, C. E. *et al.* Recombinant human prolactin for the treatment of lactation insufficiency. *Clin Endocrinol (Oxf)* **73**, 645–653 (2010).
15. Osadchy, A., Moretti, M. E. & Koren, G. Effect of domperidone on insufficient lactation in puerperal women: a systematic review and meta-analysis of randomized controlled trials. *Obstet Gynecol Int* **2012**, 642893 (2012).
16. Grzeskowiak, L. E., Smithers, L. G., Amir, L. H. & Grivell, R. M. Domperidone for increasing breast milk volume in mothers expressing breast milk for their preterm infants: a systematic review and meta-analysis. *BJOG* **125**, 1371–1378 (2018).
17. Gonzalez, J. G. *et al.* Pituitary gland growth during normal pregnancy: an in vivo study using magnetic resonance imaging. *Am J Med* **85**, 217–220 (1988).
18. Dinç, H., Esen, F., Demirci, A., Sari, A. & Resit Gümele, H. Pituitary dimensions and volume measurements in pregnancy and post partum. MR assessment. *Acta Radiol* **39**, 64–69 (1998).
19. Asa, S. L., Penz, G., Kovacs, K. & Ezrin, C. Prolactin cells in the human pituitary. A quantitative immunocytochemical analysis. *Arch Pathol Lab Med* **106**, 360–363 (1982).
20. Castrique, E., Fernandez-Fuente, M., Le Tissier, P., Herman, A. & Levy, A. Use of a prolactin-Cre/ROSA-YFP transgenic mouse provides no evidence for lactotroph transdifferentiation after weaning, or increase in lactotroph/somatotroph proportion in lactation. *J Endocrinol* **205**, 49–60 (2010).
21. Yin, P. & Arita, J. Differential regulation of prolactin release and lactotrope proliferation during pregnancy, lactation and the estrous cycle. *Neuroendocrinology* **72**, 72–79 (2000).
22. Goluboff, L. G. & Ezrin, C. Effect of pregnancy on the somatotroph and the prolactin cell of the human adenohypophysis. *J Clin Endocrinol Metab* **29**, 1533–1538 (1969).
23. Hodson, D. J. *et al.* Existence of long-lasting experience-dependent plasticity in endocrine cell networks. *Nat Commun* **3**, 605 (2012).
24. Toledano, Y. *et al.* Estradiol partially recapitulates murine pituitary cell cycle response to pregnancy. *Endocrinology* **153**, 5011–5022 (2012).
25. Khan, S. A. *et al.* GnRH Stimulates Peptidylarginine Deiminase Catalyzed Histone Citrullination in Gonadotrope Cells. *Mol Endocrinol* **30**, 1081–1091 (2016).
26. Akiyama, K. *et al.* Search for functional significance of peptidylarginine deiminase in rat pituitaries: variation during pregnancy and ultrastructural localization in prolactin cells. *Cell Biol Int* **17**, 487–494 (1993).

27. Akiyama, K., Inoue, K. & Senshu, T. Immunocytochemical study of peptidylarginine deiminase: localization of its immunoreactivity in prolactin cells of female rat pituitaries. *Endocrinology* **125**, 1121–1127 (1989).
28. Christensen, A. O. *et al.* Peptidylarginine deiminase enzymes and citrullinated proteins in female reproductive physiology and associated diseases†. *Biol Reprod* **107**, 1395–1410 (2022).
29. Li, G. *et al.* Identification and Characterization of the Lactating Mouse Mammary Gland Citrullinome. *Int J Mol Sci* **21**, 2634 (2020).
30. Bourdeau, V. *et al.* Genome-wide identification of high-affinity estrogen response elements in human and mouse. *Mol Endocrinol* **18**, 1411–1427 (2004).
31. Jefferson, W. N. *et al.* Widespread enhancer activation via ER $\alpha$  mediates estrogen response in vivo during uterine development. *Nucleic Acids Res* **46**, 5487–5503 (2018).
32. González, M., Reyes, R., Damas, C., Alonso, R. & Bello, A. R. Oestrogen receptor alpha and beta in female rat pituitary cells: an immunochemical study. *Gen Comp Endocrinol* **155**, 857–868 (2008).
33. Scully, K. M. *et al.* Role of estrogen receptor-alpha in the anterior pituitary gland. *Mol Endocrinol* **11**, 674–681 (1997).
34. Lung, D. K., Reese, R. M. & Alarid, E. T. Intrinsic and Extrinsic Factors Governing the Transcriptional Regulation of ESR1. *Horm Cancer* **11**, 129–147 (2020).
35. Safe, S. Transcriptional activation of genes by 17 beta-estradiol through estrogen receptor-Sp1 interactions. *Vitam Horm* **62**, 231–252 (2001).
36. Dong, S. *et al.* Regulation of the expression of peptidylarginine deiminase type II gene (PADI2) in human keratinocytes involves Sp1 and Sp3 transcription factors. *J Invest Dermatol* **124**, 1026–1033 (2005).
37. DeVore, S. B. *et al.* Histone Citrullination Represses MicroRNA Expression, Resulting in Increased Oncogene mRNAs in Somatolactotrope Cells. *Mol Cell Biol* **38**, e00084-18 (2018).
38. Movérare-Skrtic, S. *et al.* The estrogen receptor antagonist ICI 182,780 can act both as an agonist and an inverse agonist when estrogen receptor  $\alpha$  AF-2 is modified. *Proc Natl Acad Sci U S A* **111**, 1180–1185 (2014).
39. Brind'Amour, J. *et al.* An ultra-low-input native ChIP-seq protocol for genome-wide profiling of rare cell populations. *Nat Commun* **6**, 6033 (2015).
40. Schmidl, C., Rendeiro, A. F., Sheffield, N. C. & Bock, C. ChIPmentation: fast, robust, low-input ChIP-seq for histones and transcription factors. *Nat Methods* **12**, 963–965 (2015).
41. Zhang, X. *et al.* Peptidylarginine deiminase 2-catalyzed histone H3 arginine 26 citrullination facilitates estrogen receptor  $\alpha$  target gene activation. *Proc Natl Acad Sci U S A* **109**, 13331–13336 (2012).
42. Salm, S., Goodwyn, L., Loon, N. van, Jayant, L. & DeLeon, P. Learning Benefits of a Summer Research Program at a Community College. *ambt* **70**, (2008).
43. Higgins, T. B. *et al.* Successful student transitions from the community college to the four-year college facilitated by undergraduate research. *Council on Undergraduate Research Quarterly* **31**, 16–23 (2011).