

## REFERENCES

- Acton, J.C. and Dick, R.L. 1989. Functional Roles of Heat Induced Protein Gelation in Processed Meat. In: *Food Proteins*, Kinsella, J.E. and Soucie, W.G. (Eds.). American Oil Chemists Society, Champaign, IL.
- Acton, J.C., Ziegler, G.R., Burge Jr., D.L. and Froning, G.W. 1983. Functionality of muscle constituents in the processing of comminuted meat products. *CRC Critical Reviews in Food Science and Nutrition*, 18: 99-121.
- Ali, N.A., Ahmed, S.H., Mohamed, E.A., Ahmed, I.A.M., and Babiker, E.E. 2010. Effect of transglutaminase cross linking on the functional properties as a function of NaCl concentration of legumes protein isolate. *International Journal of Biological and Life Sciences*, 6(1), 8-13.
- AMSA. 2012. *Meat Color Measurement Guidelines*. Champaign, IL, USA: American Meat Association.
- Andersen, H. J. and Skibsted, L. H. 1991. Oxidative stability of frozen pork patties. Effect of light and added salt. *Journal of Food Science*, 56: 1182–1184.
- Ando, H., Adachi, M., Umeda, K., Matsuura, A., Nonaka, M., Uchio, R., *et al.* 1989. Purification and characteristics of a novel transglutaminase derived from microorganisms. *Agricultural and Biological Chemistry*, 53(10), 2613-2617.
- Asghar, A. and Henrickson, R.L. 1982. Chemical, biochemical, functional and nutritional characteristics of collagen in food systems. *Advances in Food Research*, 28: 231-272.
- Askin, O. O. and Kilic, B. 2009. Effect of microbial transglutaminase, sodium caseinate and non-fat dry milk on quality of salt-free, low fat turkey do`ner kebab. *LWT Food Science and Technology*, 42(10): 1590–1596.
- Barreiro, F.J., and Seselovsky, R. 2003. Usos de la transglutaminasa em la industria alimentaria: Elaboracion de carne reconstituida. *Invenio*, 6(10), 157-164.

- Boles, J. A., and Shand P. J. 1999. Effects of raw binder system, meat cut and prior freezing on restructured beef. *Journal of Meat Science.*, 53: 233–239.
- Boles, J.A. 1999. *Meat Processing: Restructured Meat*. Canadian Meat Science Association
- Boles, J.A. and Shand, P.J., 1998. Effect of comminution method and raw binder system in restructured beef. *Journal of Meat Science*, 49: 297-307.
- Breidenstein, B.C. 1982. *Intermediate Value Beef Products*. National Livestock and Meat Board, Chicago, Ill.
- Bryant, C.M. and McClements, D.J. 1998. Molecular basis of protein functionality with special consideration of cold-set gels derived from heat-denatured whey. *Trends in Food Science and Technology*, 9: 143-151.
- Canto, A.C.V.C.S., Lima, B.R.C.C. *et al.* 2014. Physico-chemical and sensory attributes of low-sodium restructured caiman steaks containing microbial transglutaminase and salt replacers. *Journal of Meat Science*, 96, 623-632.
- Casini, L., Contini, C., Romano, C., Scozzafava, G. 2015. Trends in food consumptions: what is happening to generation X?. *British Food Journal*, 117 (2): 705-718.
- Casini, L., Marinelli, N., Scozzafava, G. 2013. Distribuzione organizzata vs. negozio specializzato: uno studio sulle preferenze del consumatore italiano di carne bovina. *Rivista di Economia Agro-Alimentare*, 12 (1): 157-181.
- Chu, Y. H., Huffman, D. L., Trout, G. R., and Egbert, W. R. 1987. Color and color stability of frozen restructured beef steaks: Effects of sodium chloride, tripolyphosphate, nitrogen atmosphere, and processing procedures. *Journal of Food Science*, 52: 869–875.
- Danforth, A. A. 2014. *Butchering Beef: The Comprehensive Photographic Guide to Humane Slaughtering and Butchering*. North Adam, MA: Storey Publishing.
- Desmond, E. 2006. Reducing salt: a challenge for the meat industry. *Meat Sci* 74(1): 188–196

- Dikeman, M., Devine, C. 2004. *Encyclopedia of Meat Sciences*. Massachusetts: Academic Press.
- Esguerra, C.M. 1994. *Quality of cold-set restructured beef steaks: Effects of various binders, marination and frozen storage*. Meat Industry Research Institute NZ Publication No. 945, Hamilton, New Zealand, pp: 1-29.
- Ghavimi, B., Althen, T.G., and Rogers, R.W. 1987. Effects of tumbling at various speeds on some characteristics of restructured cured beef. *Journal of Food Science*, 52, 543–544.
- Gillet, T.A. 1987. Adipose and Connective Tissue. In: *Advances in Meat Research*, Pearson, A.M. and Duston, T.R. (Eds.), AVI Publishing Co., USA, Page: 95
- Go´mez-Guill´e´n, C., Solas, T., and Montero, P. (1997). Influence of added salt and non-muscle proteins on the rheology and ultrastructure of gels made from minced flesh of sardine (*Sardina pilchardus*). *Food Chemistry*, 58, 193–202.
- Gunderson, M. A., Lusk, J. L., and Norwood, F. B. 2009. Getting something from nothing: an investigation of beef demand expansion and substitution. *Review of Agricultural Economics*, 31: 68-87.
- Hamm, R. 1986. *Functional Properties of the Myofibrillar System and Their Measurements*. In *Muscle as Food* (Bechtel, P. J., ed.). p. 135-200. Academic Press, Inc. Orlando.
- Hammer, G. F. (1998). Microbial transglutaminase and diphosphate in finely comminuted cooked sausage. *Fleischwirtschaft*, 78, 1155– 1156, 1159–1162, 1186.
- Han, M., Zhang, Y., Fei, Y., Xu, X., and Zhou, G. 2009. Effect of microbial transglutaminase on NMR relaxometry and microstructure of pork myofibrillar protein gel. *European Food Research and Technology*, 228(4), 665-670.
- Kamieniecki, H., Wojcik, J., Pilarczyk, R., Lachowicz, K., Sobczak, M., Grzesiak, W., Blaszczyk, P. 2009. Growth and carcass performance of bull calves born from Hereford, Simmental and Charolais cows sired by Charolais bulls. *Czech Journal of Animal Science*, 54(2), 47-54.

- Kuraishi, C., Sakamoto, J., and Soeda, T. 1996. Chapter 3 ‘ The usefulness of transglutaminase for food precessing in biotechnology for improved foods and flavors, ACS Symposium Series 637, American Chemical Society, Washington DC., 29-38.
- Kuraishi, C., Sakamoto, J., Yamazaki, K., Susa, Y., Kuhara, C., and Soeda, T. 1997. Production of restructure meat using microbial transgluaminase without salt or cooking. *Journal of Food Science*, 63(3), 488-490, 515.
- Lee, H.G., and Lanier, T.C. 1995. The role of covalent cross-linking in the texturizing of muscle protein sols. *Journal of Muscle Foods*, 6,125-138.
- Lee, K. Y. and Mooney, D. J. 2012. Alginate: properties and biomedical applications. *Progress in Polymer Science*, 37(1): 106–126 .
- Maming, R. and Wattanachant, S. 2010. Effect of microbial transglutaminase and sodium chloride on restructured goat meat from trimming. Proceedings of the 12th Food Innovation Asia Conference, Bangkok, Thailand, June 17-18, 2010, 440-447.
- Mandal, P.K., Sudheer, K., Pal, U.K., Kumar, H.T.S., Das, C.D. and Rao, V.K. 2011. Preparation of low fat restructured chicken slice utilizing gizzard. *Journal of Meat Science*, 7: 56-59.
- Mandigo, R.W. 1988. *Restructured meats*. In R. Lawrie (Ed.), *Developments in meat science-4. Chapter 6 (pp. 297–315)*. London, UK: Elsevier Science Publication.
- Marques, A. C., Marostica, M. R., and Pastore, G. M. 2010. Some nutritional, technological and environmental advances in the use of enzymes in meat products. *Enzyme research*, 1, 1-6.
- Means, W.J. and Schmidt, G.R., 1987. Restructuring in Fresh Meat without use of Salt or Phosphate. In: *Advances in Meat Research*, Pearson, A.M. and Duston, T.R. (Eds.). Vol. 3, Van Nostrand Reinhold, New York, USA., pp: 469-487.
- Motoki, M. and Seguro, K. 1998. Transglutaminase and its use for food processing. *Trends of Food Science Technology*, 9, 204-210.

- Nielsen, G. S., Peterson, B. R., and Møller, A. J. 1995. Impact of salt, phosphate and temperature on the effect of a transglutaminase (F XIIIa) on the texture of restructured meat. *Journal of Meat Science*, 41: 293–299.
- Offer, G., and Trinick, J. 1983. On the mechanism of water-holding in meat: The swelling and shrinking of myofibrils. *Journal of Meat Science*, 8, 245-281.
- Onenc, A., Serdaroglu, M., and Adraimov, K. 2004. Effect of various additives to marinating baths on some properties of cattle meat. *European Food Research and Technology*, 218, 114-117.
- Payne, C.A. 2000. Non-thermal gelation. Proc. 53<sup>rd</sup> reciprocal meat conference. 53, 25-26.
- Pearson, A.M. and Gillet, T.A. 1996. *Restructured Meat Products. Processed Meats* (pp. 414-437). New York: Chapman and Hall.
- Pietrasik, Z., and Li-Chan, E. C. Y. 2002. Response surface methodology study on the effects of salt, microbial transglutaminase and heating temperature on pork batter gel properties. *Food Research International*, 35: 387–396.
- Raharjo, S., Dexter, D. R., Worfel, R. C., Sofos, J. N., Solomon, M. B., Shults, G. W., *et al.* 1994. Restructuring veal steaks with salt/phosphate and sodium alginate/calcium lactate. *Journal of Food Science*, 59: 471–473.
- Raharjo, S., Sofos, J.N., Maga, J.A. and Schmidt, G.R. 1989. Influence of meat restructuring systems on lipid oxidation in beef. *Lebensmittel Wissenschaft Technology*, 22: 199-203.
- Randall, C.J. and Voisey, P.W. 1977. Effect of meat protein fractions on textural characteristics of meat emulsions. *Canadian Institute of Food Science and Technology Journal*, 10: 88-91.
- Savell, J. W. 2014. *Encyclopedia of Meat Sciences*. London, UK: Academic Press.
- Schmidt, G.R. 1986. *Processing and fabrication*,. In P.J. Bechtel (Ed.), *Muscle as Food Chapter 5* (p. 201). Orlando, FL: Academic Press.

- Sharma, B.D., Talukder, S., Mendiratta, S.K., Kumar, R.R. and Malay, O.P. 2013. Utilization of green plantain and soy chunk for the development of restructured chicken meat blocks. *Indian Journal of Poultry Science*, 48: 42-46.
- Sharma, H., Sharma, B.D., Mendiratta, S.K., Talukder, S. and Ramasamy, G. 2014. Efficacy of flaxseed flour as bind enhancing agent on the quality of extended restructured mutton chops. *Asian-Australasian Journal of Animal Science*, 27: 247-255.
- Talukder, S., Sharma, B.D., Mendiratta, S.K., Malav, O.P., Sharma, H. and Gokulakrishnan, P. 2013. Development and evaluation of extended restructured chicken meat block incorporated with colocasia (*Colocasia esculenta*) flour. *Journal of Food Processing Technology*, 4.
- Vacha, F., Novik, I., Spicka, J., and Podola, M. 2006. Determination of the effect of microbial transglutaminase on technological properties of common carp (*Cyprionus carpio L.*) meat. *Czech Journal of Animal Science*, 51 (21): 532-545.
- Yokoyama, K., Nio, N., and Kikuchi, Y. 2004. Properties and applications of microbial transglutaminase. *Applied Microbiology and Biotechnology*, 64(4), 447-454.