

PUBLICATIONS

Spooner, B.S., Cohen, H.I. and **Faubion, J.M.** 1977. Development of the embryonic mammalian pancreas: The relationship between morphogenesis and cytodifferentiation. *Developmental Biol.* 61:110.

Hoseney, R.C., Rao, H., **Faubion, J.M.**, and Sidhu, J.S. 1980. Mixograph studies IV. The mechanism by which lipoxygenase increases mixing tolerance. *Cereal Chem.* 57:163.

Spooner, B.S., and **Faubion, J.M.** 1980. Collagen involvement in branching morphogenesis of embryonic lung and salivary gland. *Developmental Biol.* 77:84.

Sidhu, J.S., Hoseney, R.C., **Faubion, J.M.**, and Nordin, P. 1980. Reaction of ¹⁴C-cysteine with wheat flour water solubles under ultraviolet light. *Cereal Chem.* 57:380.

Akingbala, J.O., Rooney, L.W. and **Faubion, J.M.** 1981. A laboratory procedure for the preparation of *Ogi*, a Nigerian fermented food. *J. Food Sci.* 46:1527.

Akingbala, J.O., Rooney, L.W., and **Faubion, J.M.** 1981. Physical, chemical and sensory evaluation of *Ogi*, from sorghums of differing kernel characteristics. *J. Food Sci.* 46:1532.

Faubion, J.M. and Hoseney, R.C. 1981. Lipoxygenase: Its biochemistry and role in breadmaking. *Cereal Chem.* 58:175.

Hoseney, R.C. and **Faubion, J.M.** 1981. A mechanism for the oxidative gelation of wheat flour water soluble pentosans. *Cereal Chem.* 57:421.

Doherty, C.A., **Faubion, J.M.** and Rooney, L.W. 1982. A semi-automated method for determining phytate phosphorus in sorghum and other cereals. *Cereal Chem.* 59:373.

Doherty, C.A, Rooney, L.W. and **Faubion, J.M.** 1982. Phytin content of sorghum and sorghum products. *Proceedings: Sorghum Quality Symposium.* ICRISAT, Hyderabad, India.

Faubion, J.M., Hoseney, R.C. and Seib, P.A. 1982. Flour component functionality in extrusion cooking. *Cereal Foods World.* 27:212.

Faubion, J.M. and Hoseney, R.C. 1982. HTST extrusion cooking of wheat starch and flour. I. Effect of moisture and flour type on extrudate properties. *Cereal Chem.* 59:529.

Faubion, J.M. and Hoseney, R.C. 1982. HTST extrusion cooking of wheat starch and flour. II. Effect of protein and lipid on extrudate properties. *Cereal Chem.* 59:533.

Hahn, D.H., **Faubion, J.M.**, Doherty, C.A. and Rooney, L.W. 1982. Semi-automated in vitro analysis of sorghum protein availability via pronase hydrolysis. *Cereal Chem.* 59:132:

Hahn, D.H., **Faubion, J.M.** and Rooney, L.W. 1983. The free and bound substituted benzoic and cinnamic acids of sorghum. *Cereal Chem.* 60:255.

Doherty, C.A., Morad, M.M., **Faubion, J.M.** and Rooney, L.W. 1983. Alcohol Production from Sorghum. Pp 1-29 in "Alcohol Production and Utilization of Dried Distiller's Grain from Sorghum. TAES Publ. CPR-4173. Texas A&M University.

Morad, M.M., Doherty, C.A., Rooney, L.W. and **Faubion, J.M.** 1983. Utilization of Dried Distiller's Grain from Sorghum in Baked Food Systems. Pp 30-52 in "Alcohol Production and Utilization of Dried Distillers Grain from Sorghum. TAES publ. CPR-4173. Texas A&M University.

Sweat, V.E. **Faubion, J.M.**, Gonzalez-Palacios, L., Berry, G. and Akingbala, J.O. 1984. Gelatinization energy of sorghum. *Trans. ASAE* 68:14.

Faubion, J.M. and Diehl, K.C. 1984. Dynamic rheological measurements of wheat flour doughs. Pp 1-14 in "Proceedings of the International Symposium on Advances in Baking Science & Technology. C.C. Tsen, ed. Kansas State University.

Diehl, K.C., Oidonz, G.P., **Faubion, J.M.** and Dahm, P.F. 1984. Thermally induced changes in soy flour protein solubility. Pp 44-52, Proceedings of the Pan American Congress on Agricultural Engineering. Caracas, Venezuela.

Nash, J., Sweat, V.E. and **Faubion, J.M.** 1985. Energy efficiencies of several grinding machines. *Trans, ASAE* 69:14.

Nolan, N.L., **Faubion, J.M.** and Hosenev, R.C. 1986. An electron spin resonance study of native and gelatinized starch systems. *Cereal Chem.* 63:287.

Nolan, N.L., Hosenev, R.C. and **Faubion, J.M.** 1986. Effect of fatty acid spin labels upon waxy corn starch. *Cereal Chem.* 63:291.

Reddy, V.P., **Faubion, J.M.** and Hosenev, R.C. 1986. Odor generation in ground stored pearl millet. *Cereal Chem.* 63:403.

Faubion, J.M. 1987. New challenges in measuring dough texture. *Bakery Production and Marketing* July.

Hosenev, R.C., Dreese, P.C., Doescher, L.C. and **Faubion, J.M.** 1987. Thermal properties of gluten. Pp 59-66. Proceedings of the Third International Gluten Conference. R. Lasztity & F. Bekes, eds. World Scientific Press, Hong Kong.

Stuteville, B., Ponte, J.G., **Faubion, J.M.** and Kulp, K. 1988. The liquid ferment breadmaking process: Comparison of white and whole wheat flour brews. *Cereal Foods World*. 33:434.

Heber, H., Stroik, M., **Faubion, J.M.**, and Willard, L.H. 1988. Size distribution and identification of aerial dust particles in swine finishing houses. *Trans. ASAE* 31:882.

Morris, C.F., Mueller, D.D., **Faubion, J.M.** and Paulsen, G.M. 1988. Identification of L-tryptophan as an endogenous inhibitor of embryo germination in white wheat. *Plant Physiology* 88:435.

Dreese, P.C., **Faubion, J.M.** and Hosney, R.C. 1988. Effect of different heating and washing procedures on the dynamic rheological properties of wheat gluten. *Cereal Foods World*. 33:225.

Hosney, R.C., **Faubion, J.M.** and Reddy, V.P. 1988. Organoleptic implications of milled pearl millet. Proceedings, Conference on Sorghum and Millet Utilization, ICRISAT, Hyderabad, India.

Cullen-Refai, A., **Faubion, J.M.** and Hosney, R.C. 1988. Lubricated uniaxial compression of fermenting doughs. *Cereal Chem.* 65:401.

Dreese, P.C., **Faubion, J.M.** and Hosney, R.C. 1988. Dynamic rheological properties of flour, gluten and gluten-starch doughs. I. Temperature-dependent changes during heating. *Cereal Chem.* 65:348.

Dreese, P.C., **Faubion, J.M.** and Hosney, R.C. 1988. Dynamic rheological properties of flour, gluten and gluten-starch doughs. II. Effects of various processing and ingredient changes. *Cereal Chem.* 65:354.

Lawton, J.W. and **Faubion, J.M.** 1989. Measuring kernel hardness using the tangential abrasive dehulling device (TADD). *Cereal Chem.* 65:519.

Persaud, J.M., **Faubion, J.M.** and Ponte, J.G. 1990. Dynamic rheological properties of bread crumb. I. Effects of storage time, temperature and position in the loaf. *Cereal Chem.* 67:92.

Persaud, J.N., **Faubion, J.M.** and Ponte, J.G. 1990. Dynamic rheological properties of bread crumb. II. Effects of surfactants and reheating. *Cereal Chem.* 67:182.

Hansen, L.M., Hosney, R.C. and **Faubion, J.M.** 1990. Oscillatory rheometry as a tool for determining the rheological properties of starch-water systems. *J. Texture Studies* 21:213.

- Shelke, K., **Faubion, J.M.** and Hosene, R.C. 1991. The dynamics of cake baking as studied by a combination of viscometry and electrical resistance oven heating. *Cereal Chem* 67:575.
- Hansen, L.M., Hosene, R.C. and **Faubion, J.M.** 1991. Oscillatory rheometry of starch-water systems: Effects of starch concentration and temperatures. *Cereal Chem.* 68:347.
- Wang, G.I.J., **Faubion, J.M.** and Hosene, R.C. 1992. Studies on the breakdown and reformation of SDS insoluble proteins with dough mixing and resting. *Lebensm-Wiss. Technol.* 25:228.
- Kerr, C.L., **Faubion, J.M.** and Hosene, R.C. 1992. Effects of lipoxygenase on the rheological properties of dough. *Lebensm-Wiss. Technol.* 25:244.
- Shelke, K., Hosene, R.C., **Faubion, J.M.** and Curran, S.P. 1992. Age-related changes in the properties of batters made from flour from freshly harvested soft wheat. *Cereal Chem.* 69:145.
- Shelke, K., Hosene, R.C., **Faubion, J.M.** and Curran, S.P. 1992. Age-related changes in the cake-baking properties of flour milled from freshly harvested soft wheat. *Cereal Chem.* 69:141.
- Kerr, C.L., **Faubion, J.M.** and Hosene, R.C. 1993. Mixograph Studies. VI. Effects of charge (pH), activated double bond compounds and oxidants on dough mixing properties. *Cereal Chem.*70:633.
- Larsen, D.M., Setser, C.S. and **Faubion, J.M.** 1993. Effects of flour and retardation on the sensory properties of pizza crust. *Cereal Chem.* 70:647.
- Singh, J. Hosene, R.C. and **Faubion, J.M.** 1994. Effect of dough properties on extrusion-formed and baked snacks. *Cereal Chem.* 71:417.
- Fulcher, R.G., **Faubion, J.M.**, Ruan, R. and Miller, S.S. 1994. Quantitative microscopy in carbohydrate analysis. *Carbohydrate Polymers* 25:285.
- Hayman, D.M., Hosene, R.C. and **Faubion, J.M.** 1998. Bread crumb grain development during baking. *Cereal Chem.* 75: 577.
- Hayman, D.M., Hosene, R.C. and **Faubion, J.M.** 1998. Effect of pressure (crust) on bread crumb grain development. *Cereal Chem.* 75:581.
- Hayman, D.M., Sipes, K., Hosene, R.C. and **Faubion, J.M.** 1998. Factors controlling gas cell failure in bread dough. *Cereal Chem.* 75:585.

- Zhang, W., Hosenev, R.C. and **Faubion, J.M.** 1998. Capillary rheometry of maize endosperm. I. Glass transition, flow properties and melting of starch. *Cereal Chem.* 75:863.
- Mathew, J.M., Hosenev, R.C. and **Faubion, J.M.** 1999. Effect of corn sample, mill type and particle size on corn curl and pet food extrudates. *Cereal Chem.* 76:621.
- Mathew, J.M., Hosenev, R.C. and **Faubion, J.M.** 1999. Effects of corn hybrid and growth environment on corn curl and pet food extrudates. *Cereal Chem.* 76:625.
- Mathew, J.M., Hosenev, R.C. and **Faubion, J.M.** 1999. Effect of corn moisture on the properties of pet food extrudates. *Cereal Chem.* 76:953.
- Du, L., Rausch, K.D., Yang, P., Uriyo, E., Small, A., Tumbleson, M., **Faubion, J.M.**, and Eckhoff, S. 1999. Comparison of alkali and conventional corn wet-milling 1-kg procedures. *Cereal Chem.* 76:811.
- Marquart, L, **Faubion, J.**, Liu, R., Smail, V., Fulcher, R.G. and Scheideman, M. 2007. Moving Whole Grains Forward: The case for a Whole Grain Collaborative. *Cereal Foods World.* 52:196.
- Lamsal, B.P., Yoo, J.H., Haque, E., and **Faubion, J.M.** 2008. Physical and Milling Characteristics of Wheat Kernels After Enzyme and Acid Treatments. *Cereal Chem.* 85:642.
- Ren, D.Q., Walker, C.E. and **Faubion, J.M.** 2008. Correlating Dough Elastic Recovery During Dough Sheeting to Flour Analyses and Rheological Properties. *J. Sci. Food Agr.* 88:2581.
- Lamsal, B.P. and **Faubion, J. M.** 2009. The Beneficial Use of Cereal and Cereal Components in Probiotic Foods. *Food Reviews International.* 25:103-114.
- Yoo, J., Lamsal, B.P., Haque, E., and **Faubion, J.M.** 2009. Effect of Enzymatic Tempering of Wheat Kernels on Milling and Baking Performance. *Cereal Chem.* 86:122-126.
- Lamsal, B.P. and **Faubion, J.M.**, (2009). Enzymatic bleaching of Wheat flour and Its Effects on Dough Strength. *LWT Food Science & Technology.* 42:1461-1467.
- Rattin, G.E., **Faubion, J.M.**, Walker, C.W. and Mense, A.L. 2009. Measuring Yeast CO₂ Production by the Risograph. *Cereal Foods World.* 54(6):261-265).
- Finnie, S.M., Jeannotte, R. and **Faubion, J.M.** 2009. Quantitative Characterization of Polar Lipids from Wheat, Whole-Meal, Flour and Starch. *Cereal Chem.* 86 (6):637-645.

Finnie, S.M., Jeannotte, R., Morris, C.F., Giroux, M.J. and **Faubion, J.M.** (2010) Variation in Polar Lipids Located on the Surface of Wheat Starch. *J. Cereal. Sci.* 51:73-80.

Finnie, J.M., Jeannotte, R., Morris, C.F. and **Faubion, J.M.** (2010). Variation in Polar Lipid Composition Among Near-Isogenic Wheat Lines Possessing Different Puroindoline Haplotypes. *J. Cereal Sci.* 57:66-72.

Zhou, J., **Faubion, J.M.**, and Walker, C.E. 2011. Evaluation of different types of fats for use in high-ratio layer cakes. *LWT- Food Science and Technology.* 44: 1802-1808.

Li, J., Walker, C.E., and **Faubion, J.M.** 2010. Acidulent and oven type affect total anthocyanin content of blue corn cookies. *J. Sci. Food Agric.* 91:38-43.

Lin, H., Walker, C.E. and **Faubion, J.M.** 2010. Use of enzyme-oxidant combinations to improve frozen-dough bread quality. *Getreide Technologie.* 64 (2): 124-134.

Grewal, N., Faubion, J.M., Feng, Gouhua, Kaufman, R., Wilson, J. and Shi, Y.C. 2014. Structure of Waxy Maize Starch Hydrolyzed by Maltogenic alpha Amylase in Relation to its Retrogradation. *J. Agric. Food Chem.* DOI 10.1021/j506215s

Yan, S., Wu, X. Faubion, J.M., Bean, S., Cai, L., Shi, Y-C, Sun, X.S., and Wang, D. 2012. Ethanol Production Performance of Ozone Treated Tannin Grain Sorghum Flour. *Cereal Chemistry.* 89 (1):30-37.

BOOK CHAPTERS

Rooney, L.W., **Faubion, J.M.** and Earp, C.F. 1982. Scanning electron microscopy of cereal grains. Pp. 201-241 in: *Advances in Food Microstructure.* D.B. Bechtel, ed. AACC, St. Paul, MN.

Faubion, J.M., Dreese, P.C. and Diehl, K.C. 1985. Dynamic rheological testing of wheat flour doughs. Pp 91-116 in *Rheology of Wheat Products.* H. Faridi, ed. AACC, St. Paul, MN.

Ponte, J.G., and **Faubion, J.M.** 1985. Rheology of bread crumb. Pp. 241-273 in: *Rheology of Wheat Products.* H. Faridi, ed. AACC, St. Paul, MN.

Faubion, J.M. and Faridi, H. 1986. New dough rheology and its importance to cereal chemists. Pp. 1-10 in: *Fundamentals of Dough Rheology.* H. Faridi & **Faubion, J.M.**, eds. AACC, St. Paul, MN.

Faubion, J.M. and Hosney, R.C. 1989. The viscoelastic properties of wheat flour doughs. Pp. 29-66 in: *Dough Rheology and Baked Products Texture*. H. Faridi & **Faubion, J.M.**, eds. Van Nostrand, Reinhold, New York.

Hosney, R.C. and **Faubion, J.M.** 1992. The physical properties of cereals. Pp. 1-28 in: *The Storage of Cereal Grains and their Products*. D. Sauer, ed. AACC, St. Paul, MN.

Faridi, H. and **Faubion, J.M.** 1993. The microstructure of cookies, crackers and their doughs. Pp. 143-163 in: *The Science of Cookie and Cracker Production*. **Faubion, J.M.** & H. Faridi, ed. AVI/Van Nostrand, New York.

Faubion, J.M. and Faridi, H. 1995. Wheat uses in North America. Pp. 1-41 in: *Wheat End Uses Around the World*. **Faubion, J.M.** & H. Faridi, eds. AACC. St. Paul, MN.

Caldwell, E., Fast, R. and **Faubion, J.M.** 2000. The Cereal Grains. Pp 1-17 in: *Breakfast Cereals and How They are Made*, 2nd edition. R. Fast & E. Caldwell, eds. AACC. St. Paul, MN

Wrigley, C.W., Corke, H., and **J. Faubion**. 2015. The Grains that Feed the World. Pp 1-13, Vol. 1 in: *Encyclopedia of Food Grains*. C.W. Wrigley, H. Corke and **J. Faubion**, eds. Elsevier Press, Oxford, UK

BOOKS EDITED

Faubion, J.M. and Faridi, H. 1986. New dough rheology and its importance to cereal chemists. Pp. 1-10 in: *Fundamentals of Dough Rheology*. H. Faridi & **Faubion, J.M.**, eds. AACC, St. Paul, MN.

Faubion, J.M. and Hosney, R.C. 1989. The viscoelastic properties of wheat flour doughs. Pp. 29-66 in: *Dough Rheology and Baked Products Texture*. H. Faridi & **Faubion, J.M.**, eds. Van Nostrand, Reinhold, New York.

Faridi, H. and **Faubion, J.M.** 1993. The microstructure of cookies, crackers and their doughs. Pp. 143-163 in: *The Science of Cookie and Cracker Production*. **Faubion, J.M.** & H. Faridi, ed. AVI/Van Nostrand, New York.

Faubion, J.M. and Faridi, H. 1995. Wheat uses in North America. Pp. 1-41 in: *Wheat End Uses Around the World*. **Faubion, J.M.** & H. Faridi, eds. AACC. St. Paul, MN.

Wrigley, C.W., Corke, H., and **J. Faubion**. 2015. The Grains that Feed the World. Pp 1-13, Vol. 1 in: *Encyclopedia of Food Grains*. C.W. Wrigley, H. Corke and **J. Faubion**, eds. Elsevier Press, Oxford, UK