

Publications:
Horticultural Product Quality and Postharvest,
Dept. of Horticulture, SLU

International peer-reviewed journals

- Olsson, M.E., Gustavsson, K.-E., Vågen, I., Quercetin and isorhamnetin in sweet and red cultivars of onion (*Allium cepa* L.) at harvest, after field curing, heat treatment and storage. *J.Agric.Food Chem.*, 58, 2323–2330, 2010.
- Tahir I.I. Johansson, E. Olsson M E. Improvement of Apple Storability by Postharvest Heating and Controlled Atmosphere Storage. *HortSci.*, 44, 1648-1654. 2009.
- Andersson, S., Olsson, M.E., Johansson, E., Rumpunen, K., Carotenoids in Sea Buckthorn (*Hippophae rhamnoides* L.) Berries during Ripening and use of Pheophytin a as Marker of Maturity, *J. Agric. Food Chem.* 2009, 57, 250–258
- Andersson, S., Johansson, E., Rumpunen, K., Olsson, M.E. Tocopherols and Tocotrienols in Sea Buckthorn (*Hippophae rhamnoides* L.) Berries during Ripening. *J. Agric. Food Chem.*, 56, 7601-6706, 2008.
- Tahir I.I., Johansson E., Olsson M. E. Improving the productivity, quality and storability of Katja apple by better orchard management procedures. *Hortsci.* 43, 725-729, 2008.
- Mogren, L.M., Caspersen, S., Olsson, M.E., Gertsson, U.E. .Organically fertilized onions (*Allium cepa* L.): Effects of the fertilizer placement method on quercetin content and soil nitrogen dynamics. *J. Agr. Food Chem.*, 56, 361-367, 2008.
- Bergquist S., Gertsson U., Nordmark L., Olsson M. Effects of shade nettings, sowing time and storage on baby spinach flavonoids. *J. Sci. Food Agric.*, 87. 2464-2471, 2007.
- Bergquist S., Gertsson U., Olsson M.. Ascorbic acid, carotenoids, and visual quality of baby spinach as affected by shade netting and postharvest storage. *J. Agric. Food Chem.*, 55. 8444-8451, 2007.
- Tahir I.I., Johansson E., Olsson M. E. Improvement of quality and storability of apple cv Aroma by adjustment of some preharvest conditions. *Sci. Hort.*, 112, 164-171, 2007.
- Mogren, L M, Olsson, M E, Gertsson, U E.. Quercetin content in stored onions (*Allium cepa* L.): Effects of storage conditions, cultivar, lifting time and nitrogen fertiliser level. *J. Sci. Food Agric.*, 87, 1595-1602, 2007.
- Mogren, L.M., Olsson, M.E., Gertsson, U.E. Effects of cultivar, lifting time, and nitrogen fertiliser level on quercetin content in onion (*Allium cepa* L.) at lifting. *J. Sci. Food Agric.*, 87, 470-476, 2007.
- Mogren, L.M., Olsson, M.E., Gertsson, U.E. Quercetin content in field cured onions (*Allium cepa* L.): Effects of cultivar, lifting time and nitrogen fertilizer level. *J. Agric. Food Chem.*, 54, 6185-6191, 2006.
- Bergquist S. Å. M., Gertsson U.E., Olsson M.E. Influence of growth stage and postharvest storage on ascorbic acid and carotenoid content and visual quality of baby spinach (*Spinacia oleracea* L.). *J. Sci Food Agric.*, 86, 346-355, 2006.
- Nilsson J., Olsson K., Engqvist G., Ekvall J., Olsson M., Nyman M., Åkesson B. Variation in the content of glucosinulates, hydroxycinnamic acids, carotenoids, total antioxidative capacity and low molecular weight carbohydrates in *Brassica* vegetables *J. Sci. Food Agric.* 86, 528-538, 2006.
- Olsson M. E., Andersson S.C., Oredsson S., Berglund R.H., Gustavsson K.-E. Antioxidant levels and inhibition of cancer cell proliferation in vitro by extracts from organically and conventionally cultivated strawberries. *J. Agric. Food Chem.*, 54, 1248-1255, 2006.
- Tahir I. I., Johansson E., Olsson M.E. Groundcover materials improve quality and storability of Aroma apples. *Hortsci.*, 40, 1416-1420, 2005.

- Bergquist S. Å. M., Gertsson U.E., Knutsen P., Olsson M.E. Flavonoids in baby spinach (*Spinacia oleracea* L.) – changes during plant growth and storage. *J. Agric. Food Chem.*, 53, 9459-9464, 2005.
- Uggla M., Gustavsson K.-E., Olsson M.E., Nybom H. Changes in colour and sugar content in rose hips (*Rosa dumalis* L. and *R. rubiginosa* L.) during ripening. *J. Hort. Sci. Biotechn.*, 80, 204-208. 2005.
- Olsson M.E., Gustavsson K.-G., Nilsson J., Ekvall J., Pillau D., Sjöholm I., Svensson U., Åkesson B. and Nyman M. Antioxidants, Carbohydrates and Total Antioxidative Capacity in Strawberries (*Fragaria x ananassa*) – Effects of Cultivar, Ripening and Storage. *J. Agric. Food Chem.*, 52, 2490-2498. 2004.
- Olsson M. E., Gustavsson K.-E., Andersson S., Nilsson Å., Duan R.-D. Inhibition of cancer cell proliferation in vitro by fruit and berry extracts and correlations with antioxidant levels. *J. Agric. Food Chem.*, 52, 7264-7271, 2004.
- Strålsjö L., Alkint C., Olsson M., Sjöholm, I. Total folate content and retention in rosehips (*Rosa* ssp) after drying. *J. Agric. Food Chem.* 51, 4291-4295, 2003.

Proceedings and other international publications

- Olsson, M.E., Gustavsson, K.-E. Root Vegetables as Healthy Convenient Food. *Acta Hort.* 841, ISHS 2009
- Andersson C. S., Rumpunen K., Johansson E. and Olsson M. E. Changes in Tocopherols and Carotenoids during Ripening in Rose Hips and Sea Buckthorn Berries. *Acta Horticulturae*, 765, 2008, 255-261.
- Nybom, H., Rumpunen, K., Persson Hovmalm, H., Marttila, S., Rur, M., Garkava-Gustavsson, L. and Olsson, M.E.. Toward a healthier apple – characterization of an apple gene bank.. *Acta Hort.* 765:157-164, 2008.
- Andersson S., Olsson M., Johansson E., Rumpunen K. Carotenoids in Rose-Hips and Sea Buckthorn Berries. *Acta Hort.*, 744. 405-408, 2007.
- Bergquist, S. Å. M.; Gertsson, U. E. and Olsson, M. E.. Bioactive compounds and visual quality of baby spinach – changes during plant growth and storage. *Acta Hort.* 744: 343-348, 2007.
- Olsson M., Andersson S., Berglund R., Gustavsson K.- E., Oredsson S. Extracts from organically and conventionally cultivated strawberries inhibit cancer cell proliferation in vitro. *Acta Hort.*, 744. 189-194, 2007.
- Olsson M. E., Andersson S, Werlemark G., Uggla M., Gustavsson K.- E. Carotenoids and phenolics in rose hips. *Acta Hort.* 690, 249-252, 2005.
- Bergquist S.A.M., Gertsson U, Olsson M. Postharvest quality and antioxidant content of baby spinach as affected by harvest time and storage conditions. *Acta Hort.*, 682, 601-604, 2005.
- Mogren L., Gertsson U., Olsson M. Postharvest aspects on bioactive compounds in yellow onion (*Allium cepa*). *Acta Hort.*, 682, 535-536, 2005.
- Alsanius B.W.,Lundqvist S., Persson E., Gustavsson K.-E., Olsson M, Khalil S. Yield and fruit quality of tomato grown in a closed hydroponic greenhouse system as affected by *Ythium ultimum* attack and biological agents. *Acta Hort.*, 644, 544-582, 2004.
- Olsson M. Postharvest changes in the content of bioactive compounds. Danish Institute of Agricultural Sciences, Ministry of Food Agriculture and Fisheries, Denmark. DIAS report, Plant Production no 29, 2002.

Presentations at conferences (selected)

Oral presentations:

International:

- Fruit and Vegetable (FAV)/Health, ISHS, Avignon, France, October 2009.
- **Invited speaker** 236th American Chemical Society (ACS) National Meeting in Philadelphia, USA, August 17-21, 2008, Agricultural & Food Chemistry Division.
- Fruit and Vegetable (FAV)/Health, ISHS, Houston, USA, October 2007.
- **Invited speaker** 232nd Meeting ACS, San Francisco, USA, September 9-14, 2006, Agricultural & Food Chemistry Division.
- ISHS, world conference, Aug. 2006, Seoul, Sydkorea
- Fruit and Vegetable /Health, ISHS, Aug. 2005 Canada
- **Invited speaker** Quality and Health conference, Fruit and berries, Kaliningrad 7-10 November 2005. Swedish growers/SIDA/ University of Kaliningrad

In Sweden:

- **Invited speaker** Horticultural conference, Tillväxt Trädgård, SLU Alnarp, 21-22 January 2009.
- **Invited speaker** Konsument Stockholm, 2007, seminar broadcasted in TV
- **Invited speaker** Agricultural and horticultural conference, SLU Partnerskap Alnarp, Sweden, February 2007.
- **Invited speaker** Livsmedelsforskardagarna, 21-22 November, 2006, Ultuna, Sweden
- **Invited speaker** Apple seminar, KSLA in Kivik, Sweden, 2005.

Doctoral Thesis:

Bergquist, Sara, Bioactive Compounds in Baby Spinach (*Spinacia oleracea* L.) Effects of Pre- and Postharvest Factors. Doctoral thesis. Faculty of Landscape Planning, Horticulture and Agricultural Science, Department of Crop Science, Swedish University of Agricultural Sciences, Alnarp, Acta Universitatis Agriculturae Sueciae 2006: 62, 2006.

Mogren, Lars. Quercetin Content in Yellow Onion (*Allium cepa* L.) Effects of Cultivation Methods, Curing and Storage. Doctoral thesis. Swedish University of Agricultural Sciences Faculty of Landscape Planning, Horticulture and Agricultural Science, Department of Crop Science, Alnarp, Acta Universitatis Agriculturae Sueciae, 2006: 96, 2006.

Tahir, Ibrahim. Control of Pre- and Postharvest Factors to Improve Apple Quality and Storability. Doctoral thesis, Faculty of Landscape Planning, Horticulture and Agricultural Science, Department of Crop Sciences- Alnarp, Swedish University of Agricultural Sciences Alnarp, Acta Universitatis Agriculturae Sueciae, 2006:35, 2006.

Andersson, Staffan C. Carotenoids, Tocochromanols and Chlorophylls in Sea Buckthorn Berries (*Hippophae rhamnoides*) and Rose Hips (*Rosa* sp.) Variation during Ripening, and among Cultivars/Species and Years, Doctoral Thesis. Faculty of Landscape Planning, Horticulture and Agricultural Science, Department of Horticulture and Department of Plant breeding and Biotechnology, Alnarp, Swedish University of Agricultural Sciences Alnarp, Acta Universitatis agriculturae Sueciae 2009: 58, 2009.