KRAFT, THOMAS[1], GERHARD STEINRÜCKEN[1*], JAN GIELEN[2], TONG ZHU[3], and TODD MOUGHAMER[3], [1]Syngenta Seeds AB, Box 302, SE-261 23 Landskrona, Sweden, [2]Syngenta Seeds S.A.S., 12 chemin de l'Hobit, 31790 Saint-Sauveur, France, [3]Syngenta Biotechnology Inc., 3054 Cornwallis Road, Research Triangle Park, NC 27709-2257. **A sugar beet Affymetrix chip.**

ABSTRACT

Syngenta has developed the first Affymetrix chip with sugar beet sequences. The chip includes sequences from more than 15,000 unigenes from public databases and more than 19,000 BAC end sequences from the BAC library developed by USDA. The total number of probes on the chip is 500,000. The chip can be used both for expression analyses (unigene sequences) and for marker development applications (all sequences). One of the first major applications will be the creation of an ultra-high density map. The chip is available for public research after agreement with Syngenta.