Nurture Research Center research is published in the Journal of Dairy Science and the Professional Animal Scientist Journal. Notable publications include research on the amino acid requirements for calves less than 5 weeks age and the responses to key and essential fatty acids in calves less than 16 weeks of age. Both areas are "firsts" in the field of calf nutrition and are gaining the attention of calf researchers and calf nutritionists worldwide.

Selected publications

- Feeding calves different rates and protein concentrations of twenty percent fat milk replacers on growth during the neonatal period - Prof. Anim. Sci. 23:337-349 (2009)
- Protein concentrations for starter fed to transported neonatal calves - Prof. Anim. Sci. 20:123-134 (2007)
- Optimal concentrations of twice methionine and threonine in milk replacers for calves less than five weeks of age - J. Dairy Sci. 91:3128-3137 (2008)
- Effects of using wheat gluten and rice protein concentrate in milk replacers - Complement 92:5147-5153 (2009)
- Effect of feeding rate and weaning age of calves fed a conventional milk replacer during warm summer months - J. Dairy Sci. 95:363-369 (2012)
- NeoTec4 provides essential fatty acids which are deficient in milk, milk replacer, by supplementing these specific nutrients we are able to promote healthy calf performance and feed efficiency.

AmNeo is our amino acid balancing technology. Research has also found that several essential amino acids are deficient in milk and milk replacer; by supplementing these specific nutrients we are able to promote healthy calf performance and feed efficiency.

Complement is a milk derived functional ingredient that supports healthy immune function post gut closure.
The Nurture Research Center is a state-of-the-art calf research facility dedicated to furthering our understanding of calf management and nutrition.

Built in 1999, work done at the Nurture Research Center facility has contributed to more peer-reviewed calf publications than at any other commercial, university or government facility.

Research at the Nurture Research Center is focused on two stages of development. Pre-weaning research is conducted in the Nursery, while post-weaned calves are studied in the Grower unit.

**Nursery Unit**
- 2 rooms, 50 pens in each
- Natural ventilation with curtain sides
- Clear polycarbonate roof and retractable shade cloth
- 4’x 8’ pens with deep straw bedding
- Calves are fed and weighed individually

**Grower Unit**
- 24 pens
- Groups of 4-5 calves
- Housed in a super hutsches
- Fed and weighed as a group

**Facility overview**

**Industry-leading research**
- 20+ trials per year
- 50 calves arrive every 5 weeks
- 200 200-head one-time capacity
- 40+ 40+ peer-reviewed publications

**Data Collection**
- Every Trial
- Temperature/humidity (hourly)
- Feed offered and refused (daily)
- Fecal score (daily)
- Medical treatments (daily)
- Calf weight (weekly)
- Body condition score (biweekly)
- Hip width (biweekly)
- Hip height, Heart girth and Paunch girth (beginning and end)

**Data Collection**
- As dictated by the procedure
- Digestibility
- Markers of immunity (serum IgG, tumor necrosis factor and various interleukins)
- Blood constituents (glucose, urea nitrogen, BHBA, etc.)
- Intensive measurements of body temperature and posture