



Two (2) lab projects for

Masters / Diploma students

(starting March/April 2008)

Project 1: **Biosynthesis**

This project uses human tissue cultures and cellular and molecular biology to understand how complex oligosaccharides are synthesized in the human mammary gland.

The applicant is curious about biochemical pathway analysis, and has basic knowledge and understanding in cellular and molecular biology. Lab experience in tissue culture and molecular biology are a definite plus.

Project 2: **Affinity**

This project uses chromatography, mass spectrometry, and ELISA- and cell-based assays to identify human milk oligosaccharides with high affinity for physiologically relevant lectins.

The applicant is a real "Tüftler", enjoys technical applications, and has basic knowledge in chromatography and mass spectrometry. Lab experience is a big plus.

The applicant for either one of the projects is curious and passionate about science and research, an enthusiastic team player, willing to locate to Southern California for 5-6 months and has very good English communication skills (oral and written).

A monthly stipend will be provided. Also, the selected candidate together with the supervisor will write and submit a German fellowship proposal, e.g. DAAD, to increase the monthly stipend.

Interested candidates should email a cover letter (containing a brief description of accomplishments, interests, and career goals) and current curriculum vitae with contact information for two references to Dr. Lars Bode at lbode@burnham.org.





Burnham Institute for Medical Research conducts world-class collaborative research dedicated to finding cures for human disease, improving quality of life, and thus creating a legacy for its employees, partners, donors, and community. The La Jolla, California campus was established as a nonprofit, public benefit corporation in 1976 and is now home to three major centers: a National Cancer Institute-designated Cancer Center, the Del E. Webb Center for Neurosciences and Aging, and the Infectious and Inflammatory Disease Center. *Burnham* today employs more than 750 people and ranks consistently among the world's top 20 organizations for the impact of its research publications. In 2006, *Burnham* established a center for vascular mapping and bionanotechnology in Santa Barbara, California. *Burnham* is also establishing a campus at Lake Nona in Orlando, Florida that will focus on diabetes and obesity research and will expand the Institute's drug discovery capabilities, employing over 300 people. For additional information about *Burnham* and its research, visit www.burnham.org.

