



University Enterprise Laboratories (UEL)

Henry Larmie PhD, Nov 02, 2017

A MN Collaborative Research Center

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About UEL

- ❑ A non-profit 501c organization established in 2004.
- ❑ Provides and manages a diverse collaborative research facility (Laboratories, Office spaces, and Supportive programs) for;
 - ❑ Early-stage life science research companies
 - ❑ Pilot scale formulation companies
 - ❑ Clinical Trials Research Facilities
 - ❑ FDA / CLIA /DEA Registered Analytical Development and GMP Testing
- ❑ Located at 1000 Westgate Drive, St. Paul, MN 55114
- ❑ 126,000 gross square ft. of Laboratory and Office Space, 30 separate Offices
- ❑ Current UEL Occupancy is at 95% with 38 tenants
- ❑ Provides Shared Spaces for Autoclaves, Centrifuges, Glass Washing, 6 Conferences rooms (Hosting from 1 to 250 people), Deionized Water system

UEL Mission and Vision

Vision

To facilitate the growth of Minnesota **next generation** of life sciences and complementary technology companies

Mission

To support early stage science and complementary technology ventures by **providing premier facilities and services** in an ecosystem that enables **innovation, growth and commercial success**.

UEL 2016 Highlights

- ❑ Solar Energy Project (Generates ~ 25% of UEL Electrical Needs.
- ❑ Facility Improvement: (Repaving of ~ 180,000 Sq. Ft of Parking Lot Space.
- ❑ New Secured Lab Spaces completed by early 2016.
- ❑ A New Graduate Company: Isur Tec

UEL 2017 Projects

- ❑ Develop a “Resource in Residence” Facility with partnership with Venture Bank
- ❑ Facility will support Mentoring and Coaching for the following examples:
 - SBIR/STTR
 - Small Business Development Center
 - SCORE
 - Minnesota Dept. of Employment and Economic Development (DEED)
 - Angel Capital Networks, Venture Capital Groups
 - Attorneys/ Patent Attorneys
 - Banking Professional etc



ChRi Laboratories : A UEL Tenant Facility

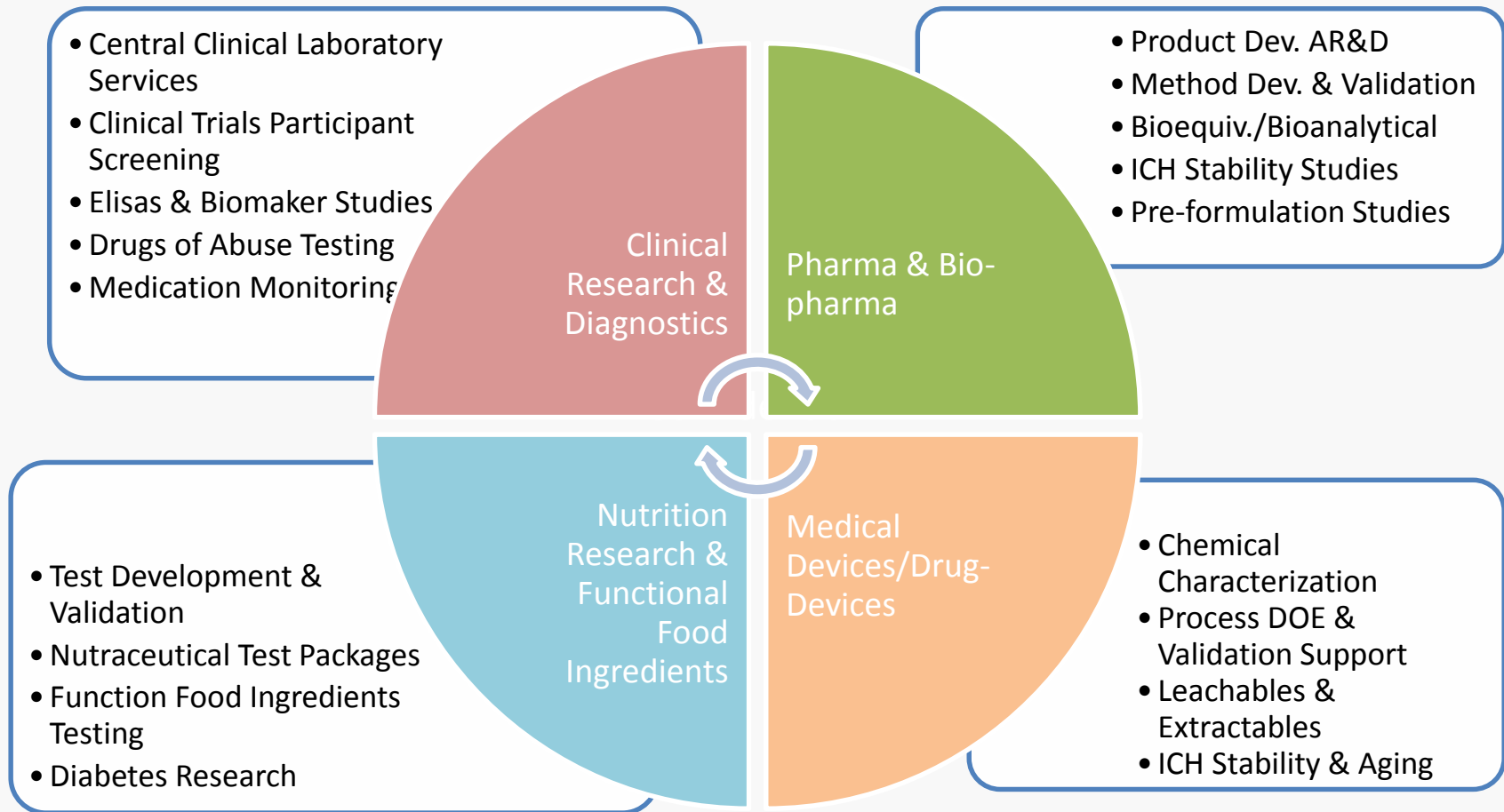
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An FDA GMP and CLIA Registered Facility



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A Diverse Platform of Outsourced Analytical Solutions



Our Pharma & Clinical Experience

1. Clinical Laboratory Research

- Clinical Trials in Phase 1-11b, Analytical Support
- Diabetes Research (Insulin, GLP, PYY, etc)
- Healthy Subjects Screening for Clinical Trials
- Test Development and Validation
- Reference Laboratory Support Services

2. Bio-analytical Development

- Elisa and Biomarker Test Development
- Protein Drug Products Analytical Development
- Oligonucleotides and Peptide Mapping
- ICH Stability Studies

3. Pharmaceutical /Biopharma/Food Additives/Nutraceuticals

- ICH Stability Studies
- Inhalation Drug Delivery Systems
- Topical Gels, Creams, Ointments, Suppositories
- Capsules, Probiotics, Drug Substances
- Microspheres and Nanoparticles
- Nutraceuticals, Beta Glucan R&D Formulations

4. Medical Devices/Drug Devices

- Pacing Leads, Stents
- Cleaning Protocols, Process DOEs
- Drug-Device Antimicrobial Coatings
- Leachables and Extractables
- Biocompatibility Studies

Our Clinical Research Process

1. Investigator Manual, Analytical Plan

- Review Sponsor/Client Protocols
- Documents Analytical Plan to include Test Menus, Test Codes/Panels, etc.
- Agree upon pre-analytical activities, specimen tubes and storage conditions
- Gain understanding of Timelines.

2. Clinical Test Order Submission

- Specimen Submission Process and Initial Chain of Custody (Specimen ID, #, storage conditions).
- Handling Error Corrections.
- Storage in designated Refrigerator Systems

3. Sample Inspection and Testing

- Daily QCs and Action Logs
- Formal Chain of Custody
- Accession and Testing
- Critical Result Handling and Reporting
- Data Reporting.

4. Final Report and Archiving

- Data Reporting / Custom Data Reporting
- Technical Reviews and Approvals
- QA Reviews and Approvals
- Final Report Submission and Archiving Procedures.

UEL Contacts

- For Laboratory Space Rentals
Greg LaSalle, Property Manager,
651 641 2803
- For Tours and Business Relationships
Lynne Ostermann, Executive Director,
651 641 2870
- For ChRi Laboratories
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Questions? Discussions?
Thanks for Your Attention!!!