



Center For Pharmaceutical Integration-LLC



- ***A consulting group of more than 20 Ph.D level highly qualified & experienced pharmaceutical professionals from the Pharmaceutical & Biotechnology industry . Main emphasis on CMC.***
- ***Founded: May 2012***
- ***Founders :***
 - ***Dr. Mick Banks***
Ex. Vice President, Pharmaceutical Sciences , Pfizer,
 - Mike Yelvigi***
Ex. Sr. Director, Pharmaceutical Sciences ,Wyeth/Pfizer,

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OUR CORE BUSINESS

- **Chemistry and Manufacturing Controls across the spectrum of drug development to commercialization (from Pre Clinical to Phase 4)**
- **All scientific disciplines and CMC activities**
- **Small Molecules & Biotechnology Products**



What does this Encompass?



**Active
Pharmaceutic
al Ingredient
(API)**

**Analytical Development
Analytical Control**

**Formulation ,
Drug Delivery
and Development**

**Clinical Supply &
Commercial
Manufacturing and
Packaging**

**Regulatory CMC
Documentation &
Filings
(IND,NDA,ANDA)**

Core Scope of CMC Services



What is our Expertise & Experience ?



- **A group of over 20 Ph.D level experts with a collective experience of CMC in excess of 500 years**
- **Attained Director or VP level positions**
- **Experience across multi-national , start-up and generic companies or with regulatory agencies (FDA/MCA)**
- **Peer recognized scientific and technical expertise across CMC disciplines with several holding key positions in Professional bodies (AAPS, ACS, ISPE,USP,FIP, IPA)**
- **Hands on experience of early and late development compounds to successful regulatory filings in all major markets (USA, Europe, Japan, Far East)**
- **Located in the USA, Europe and India**



Key Focus Areas



- **Early Development**
 - **Development of strategy and provision of technical support covering API synthesis, pre-formulation, formulation, drug delivery & analytical development . Assembly of IND submissions (CTD documentation) and interactions with the FDA/MHRA/EMEA**
- **Late Development**
 - **Generic Drug Development and 505B2 applications**
 - **New Drug Development**
 - **API synthesis and Dosage Form Design to commercialization**
- **Quality and Technical Audits**
 - **Due-Diligence**
 - **GMP & GLP Audits**



What do we offer ?



- **Customized pharmaceutical solutions for startup, virtual companies, investment institutions to meet your unique needs and budgets.**
- ***CMC expertise from pre-clinical through the spectrum of drug development to commercialization***
- **Large and small molecule technical evaluation, drug development program design and operational management**
- **Technical advice and hands on support in developing filings and interactions with Regulatory Agencies**



How do we operate ?



- **Close interaction with each client to fully understand the project scope**
- **Provide a customized solution for each project with the right expertise and experience to deliver efficiently and effectively**
- **Highly responsive and cost conscious to provide value and quality to meet each client's expectations**



Our guiding principals



- **Scientific and technical scrutiny**
- **Responsiveness & nimbleness**
- **Openness**
- **Value**
- **Delivery (to milestones & agreed budgets)**



Our Most Recent Projects



- **Successful IND submissions including technical advice, writing of documents , facilitation of interactions with FDA (including face to face meetings and resolution of questions) for three clients**
- **Resolution and progression of complex API Syntheses to critical investment milestones**
- **Support to Generic and 505(b)2 development strategy**
- **Preparation of a business development proposal for a Drug Delivery system for commercialization (Strategy/Risk Mitigation)**
- **Development of platform for the Production/Distribution of Clinical Comparators to enhance clinical trial operations**



Our Most Recent Projects



- **Customized training on the following subjects:**
 - **Technology transfer of small and large molecule projects**
 - **Technology Integrations of CMC functions post Mergers and Acquisitions**
 - **Lyophilization Technology**
 - **Post Approval Changes of Dosage Forms and Drug substances**
 - **Semi-Solid Dosage Form development**
 - **Pharmaceutical Process Development**
 - **GMP compliance and CAPA**
 - **GMP Plant Audits and Data Integrity management**
 - **Tablet and Capsule Development**
 - **Quality by Design Applications**
 - **Biosimilar Development**
 - **Process Validation**



CRO-CMO knowledge and experience base



Many Contract Research & Manufacturing Organizations in USA, Europe, and India offering:

- **CMC laboratory development activities**
 - *API, Analytical, Formulation*
 - *Specific technologies (e.g. nano-technology, lyophilization)*
- **GMP manufacturing capability**
 - *API (small molecules and biotech) , sterile & non sterile dosage form and clinical supply packaging*
- **Scientific and Technical expertise**
- **Value and reliability**
- **Regulatory competence**



Contact Details



Thank You

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