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SUMMARY

Thirty years at the interface of chemistry and biology and ten years of successful interdisciplinary consultancy serving small/start-up pharma, biotech, & industrial biotech / biobased chemicals companies. CTO-level service, patent liaison, due diligence for investment. Expert witness service. Directed multi-disciplinary process development groups in major corporations and start-ups. Built new, practical technology base within both small company and large corporate environments. Delivered profitable IP, process scale-up, and novel automation. Extensive interdisciplinary project management experience covering process chemistry, molecular biology, biotransformations & biocatalysis, plus fermentation of natural products and recombinant enzymes. Developed and scaled combined biological/chemical processes for production of commodity chemicals from biomass. Extensive experience under GMP for API production via fully synthetic processes, semi-synthetic, and natural product fermentations plus attendant CMC sections of IND & NDA filings. North American Editor of international peer-reviewed journal and Chairs of international symposia in the field of biocatalysis.

APPOINTMENTS

2002 - President, Dodds & Associates LLC
2009 - Kent BioEnergy Scientific Advisory Board
2005 - Sr. Advisor, Rondaxe Pharma LLC
2002 - zuChem Scientific Advisory Board & CSO, zuSyn Inc.
2009-11 Sr. Advisor, Draths Corporation
2003-06 Sr. Advisor, Michigan Biotechnology Institute (MBI)
2002-08 Codexis Industrial Advisory Board
1999-01 Director, Fermentation & Biocatalysis Development, Bristol-Myers Squibb
1998-02 North American Editor, *Journal of Molecular Catalysis B: Enzymatic*
1991-99 Manager, Biotransformations Group, Schering-Plough Research Institute
1986-91 Sr. Protein Biochemist, Sepracor Inc.

EDUCATION

1984-86 MRC Post-doctoral Fellow in Molecular Biology, University of Colorado, Boulder
1979-84 Ph.D. Organic Synthesis, University of Toronto
1977-79 M.Sc. Biological Chemistry, University of Toronto
1973-77 B.Sc. Biochemistry, Trinity College, University of Toronto

PROFESSIONAL EXPERIENCE

INDEPENDENT CONSULTING; DODDS & ASSOCIATES LLC

2002 -

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Founded Dodds & Associates to provide strategic technical planning and project management to the pharmaceutical, biotech, industrial biotech, and green chemistry/clean-tech industries. Provide small and start-up companies with experience at CTO / VP level at interface of chemistry and biotechnology. Executed contracts with over twenty clients since 2002. Pharma projects successfully concluded with licensing by large pharma houses, and biobased chemicals client acquired for IP. Client references available.

Completed and current projects include:

- Technical executive for small entities:
 - CTO-level service; IP review, strategy and management, patent liaison; technology management
 - interim CSO for client; responsible for lab build-out, technology base, contract work & staffing
 - PI on multiple grant applications, presentations to regional development committees
- Experience with venture funding for industrial biotechnology
 - identification of technical opportunities and presentation to the fund, including white-papers for specific technical areas
 - significant experience with academic founders, university licensing groups, patent counsel and senior management in an interdisciplinary start-up environment
 - technical due-diligence and competitive analysis for investment/acquisition
- Project Management:
 - development, and scale-up for both pharma and non-pharma projects including biological/fermentation & chemical processes plus attendant IP strategy; biobased chemicals
 - RFPs for development of both fermentations and chemical syntheses, CMO selection, point of contact for clients' outsourced projects, direct technical support to CMO (both domestic and foreign) and liaison to corporate management after project awarded to contractors
 - CMC sections for IND & NDA, batch records for GMP production, process validation
- Expert witness service; experience in opinions, depositions, affidavits, and cross-examinations

BRISTOL-MYERS SQUIBB

Invited to BMS in 1999 to lead a new group of 50 scientists organized into chemical process development, molecular biology, fermentation development, and GMP analytical functions.

Developed chiral chemical processes, plus fermentations for natural products, enzyme production, and biocatalysis. Projects included fermentation and isolation of natural products, establishing culture banks and seed train for large-scale fermentations supplying clinical material under GMP; biocatalysis via whole cell, resting biomass, and isolated enzymes; screening, cloning, chemical gene synthesis, expression and immobilization of enzymes, plus all necessary process organic chemistry.

Reviewed all technology presented to BMS for paclitaxel production. Renewed and managed multi-million dollar taxane project with external company. Technical due diligence for licensing and investment projects.

SCHERING-PLOUGH RESEARCH INSTITUTE

Invited to SPRI in 1991 to establish a new group to develop biocatalysis for syntheses of APIs. The Group had a total of 37 public releases plus 13 patent disclosures (6 issued as patents, one kept secret).

Introduced biological catalytic activities in chemical process at scales ranging from the small-scale lab synthesis of metabolites, to pilot plant processes providing clinical material. Established enzyme process now used commercially in synthesis of Posaconazole®.

SEPRACOR

Managed biocatalysis research, creating commercial opportunities for Sepracor's core membrane platform. Inventor of commercial enzyme process for resolution of Diltiazem® intermediate.