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## JOHN HSIEH, Ph.D.

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(<https://www.linkedin.com/in/jhsieh/>)

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### SCIENTIST/SENIOR SCIENTIST, ENZYMOLOGY

A self-motivated, independent, and innovative biochemist with hands-on experience with mechanistic enzymology, elucidation of lead molecule mechanism of action, and assay design. Strong communication, problem-solving, and analytical skills. Extensive experience working with multi-disciplinary teams. Experience in scientific operations management, mentoring, and project management.

- Kinetic mechanism determination
- Allosteric activation or inhibition
- $K_d$  and  $K_i$  determination
- Drug-target residence times
- $K_d$  of tight binding compounds
- Irreversible enzyme inactivation

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### ENZYMOLOGY EXPERTISE

Steady-state kinetics and kinetic equation derivation, transient kinetic methods (stopped-flow and chemical quench-flow) and kinetic mechanism determination (KINSIM/FITSIM, and KinTek Explorer), mode of action analysis, kinetic isotope effects, structure-activity analysis, kinetic assay development, ligand-macromolecular interaction ( $K_d$ ), dissociation kinetics determination.

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### ADDITIONAL TECHNICAL EXPERTISE

- **Biochemistry:** Protein expression and purification, molecular biology, liquid chromatography (HPLC, FPLC, IEC, affinity, size-exclusion), SDS-PAGE, protein and nucleic acid chemistry, enzyme immunoassays.
- **Biophysical Techniques:** Binding thermodynamics,  $K_d$  determination for protein-protein and compound-protein interaction, fluorescence techniques (time-resolved fluorescence Resonance Energy Transfer (or-FRET), FRET, polarization, anisotropy, competition), SPR, Dynamic Light Scattering.
- **Assay Development:** compound screening enzyme activity assays by UV/Vis, radiological, fluorescence, and fluorescence anisotropy techniques, mid- and high-throughput assays.
- **Cell Biology:** Mammalian cell cultures, transfection, cell-based ion channel and transporter assays.
- **Computer Skills:** GraphPad Prism, KinSim/FITSim, KinTek Explorer, Microsoft Office Suite, PyMOL.
- **Other:** Mentoring, grant writing, project management, scientific operations.

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### EDUCATION

UNIVERSITY OF MICHIGAN, Ann Arbor, Michigan, **Postdoctoral Fellow**

Advisor: Carol A. Florio; *Kinetic Mechanism and Conformational Dynamics of Adenosine P*

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE, St. Louis, Missouri, **Ph.D., Biochemistry**

Doctoral Thesis Advisor: Timothy M. Lobman; *Kinetic Mechanisms of DNA binding, DNA unwinding, and DNA-coordinated ATPase Activity by the Escherichia coli Rep Helicase*

TEXAS A&M UNIVERSITY, College Station, Texas, **B.Sc. with Honors, Biochemistry**

Undergraduate Research Advisor: Paul F. Fitzpatrick; *Catalytic Mechanism of Alcohol Oxidase*

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### EXPERIENCE

ICAGEN, Inc. (Formerly Xigen Sciences.)  
Laboratory Director, Site Manager

Cambridge, Massachusetts  
June 2013 to December 2015

Worked collaboratively with a multi-disciplinary team to develop proprietary Xigen® x-ray fluorescence (XRF) technology as a label-free ion channel assay for small molecule ion channel modulator screening. My invention of a

# Special Techniques For The Enzymologist Volume 4 Volume 4 Special Techniques For The Enzymologist

**Christopher W. Wharton**



## **Special Techniques For The Enzymologist Volume 4 Volume 4 Special Techniques For The Enzymologist:**

Special Techniques for the Enzymologist, 1957 The critically acclaimed laboratory standard Methods in Enzymology is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike The series contains much material still relevant today truly an essential publication for researchers in all fields of life sciences Special Techniques for the Enzymologist Sidney P. Colowick, Nathan Oram Kaplan, 1957-10-28 The critically acclaimed laboratory standard Methods in Enzymology is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike The series contains much material still relevant today truly an essential publication for researchers in all fields of life sciences **Methods in Enzymology: Special techniques for the enzymologist** Sidney P. Colowick, Nathan Oram Kaplan, 1965 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1975 Advances in agronomy. 29.1977, 1977 **Scientific Writing Techniques and Project Management in Biotechnology** Dr. Simmi Kharb, 2009 The Publishers' Trade List Annual, 1985 **Gases in Plant and Microbial Cells** Hans-Ferdinand Linskens, John F. Jackson, 2012-12-06 Modern Methods of Plant Analysis When the handbook Modern Methods of Plant Analysis was first introduced in 1954 the considerations were 1 the dependence of scientific progress in biology on the improvement of existing and the introduction of new methods 2 the difficulty in finding many new analytical methods in specialized journals which are normally not accessible to experimental plant biologists 3 the fact that in the methods sections of papers the description of methods is frequently so compact or even sometimes so incomplete that it is difficult to reproduce experiments These considerations still stand today The series was highly successful seven volumes appearing between 1956 and 1964 Since there is still today a demand for the old series the publisher has decided to resume publication of Modern Methods of Plant Analysis It is hoped that the New Series will be just as acceptable to those working in plant sciences and related fields as the early volumes undoubtedly were It is difficult to single out the major reasons for success of any publication but we believe that the methods published in the first series were up to date at the time and presented in a way that made description as applied to plant material complete in itself with little need to consult other publications Contributing authors have attempted to follow these guidelines in this New Series of volumes **Methods in Enzymology** Christophe Henri Werner Hirs, Serge N. Timasheff, 1986 **Methods of Soil Enzymology** Richard P. Dick, 2020-01-22 Methods of Soil Enzymology provides the first comprehensive set of vetted methods for studying enzymes in soils Readers will especially benefit from the step by step explanation of the lab procedures as well as background information for using these methods effectively and analyzing data Main topics include activity assays enzyme extraction and synthetic enzyme complexes Each method covered includes background information step by step descriptions of the procedure and special comments regarding nuances pitfalls and interpretation of the method Learn the latest research

methods including enzyme extraction methods and procedures for creating synthetic enzyme complexes as well as the newest ways to use small scale and high throughput methods for enzyme activity assays Written for the researcher but welcoming to those new to soil enzymology the introduction includes conceptual information to orient those who are not familiar with these methods but want to use them In the tradition of SSSA methods books *Methods of Soil Enzymology* features a comprehensive approach with a focus on ease of use *Molecular Enzymology* Christopher W.

Wharton,2013-12-11 *MOLECULAR ENZYMOLOGY BECAUSE OF ITS CHEMICAL AND MATHEMATICAL* content is often regarded as a formidable and forbidding topic by undergraduates on a biology or biochemistry course As a result of teaching enzymology to undergraduates for a number of years we recognize the areas which appear to cause the most common difficulties in conceptual understanding We feel that a book treating those areas by means of a logical approach carefully developed from basic principles fills a gap in the multiplicity of enzymology texts currently available In writing this book we have had in mind the needs of Honours Biochemistry students in particular those who may take a special interest in enzymology The text covers the main bulk of the material required in the second and third years of such courses In addition those taking courses in Biological Chemistry may well find the book to be of central interest The book begins with a description of the fundamentals of catalysis illustrating these with simple chemical reactions which may be supposed to serve as models of catalytic processes Protein structure is discussed in terms of the fundamental forces which determine the shape and dynamic behaviour of protein molecules The approach emphasizes those features thought to be most intimately involved in the catalytic function of enzyme molecules and is illustrated with specific examples **Sensors, Chemical and**

**Biochemical Sensors** Joachim Hesse,J. N. Zemel,2008-11-20 *Sensors* is the first self contained series to deal with the whole area of sensors It describes general aspects technical and physical fundamentals construction function applications and developments of the various types of sensors This is the second of two volumes focusing on chemical and biochemical sensors It includes a detailed description of biosensors which often make use of transducer properties of the basic sensors and usually have additional biological components This volume provides a unique overview of the applications the possibilities and limitations of sensors in comparison with conventional instrumentation in analytical chemistry Specific facets of applications are presented by specialists from different fields including environmental biotechnological medical or chemical process control This book is an indispensable reference work for both specialists and newcomers researchers and developers

**The Enzymes** Boyer, Abb,1971-05-28 *The Enzymes* *Biochemistry* David E. Metzler,Carol M. Metzler,2001-03-23 *Biochemistry The Chemical Reactions of Living Cells* is a well integrated up to date reference for basic biochemistry associated chemistry and underlying biological phenomena *Biochemistry* is a comprehensive account of the chemical basis of life describing the amazingly complex structures of the compounds that make up cells the forces that hold them together and the chemical reactions that allow for recognition signaling and movement This book contains information on the human body

its genome and the action of muscles eyes and the brain It also features thousands of literature references that provide introduction to current research as well as historical background twice the number of chapters of the first edition and each chapter contains boxes of information on topics of general interest Publisher description Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office,1957-07 *Enzymes in Industry* Wolfgang Aehle,2008-01-08 Leading experts from all over the world present an overview of the use of enzymes in industry for the production of bulk products such as glucose or fructose food processing and food analysis laundry and automatic dishwashing detergents the textile pulp and paper and animal feed industries clinical diagnosis and therapy genetic engineering The book also covers identification methods of new enzymes and the optimization of known ones as well as the regulatory aspects for their use in industrial applications Up to date and wide in scope this is a chance for non specialists to acquaint themselves with this rapidly growing field The quality is so great that there is no hesitation in recommending it as ideal reading for any student requiring an introduction to enzymes Enzymes in Industry should command a place in any library industrial or academic where it will be frequently used The Genetic Engineer and Biotechnologist Enzymes in Industry is an excellent introduction into the field of applied enzymology for the reader who is not familiar with the subject offers a broad overview of the use of enzymes in industrial applications It is up to date and remarkable easy to read despite the fact that almost 50 different authors contributed The scientist involved in enzyme work should have this book in his or her library But it will also be of great value to the marketing expert interested in the present use of enzymes and their future in food and nonfood applications Angewandte Chemie This book should be available to all of those working with or aspiring to work with enzymes In particular academics should use this volume as a source book to ensure that their new projects will not reinvent the wheel Journal of Chemical Technology and Biotechnology *Bioreactor System Design* Juan A. Asenjo,1994-11-17 Describes the state of the art techniques and methods involved in the design operation preparation and containment of bioreactor systems taking into account the interrelated effects of variables associated with both upstream and downstream stages of the design process The importance of the initial steps in the development of a bioprocess such **Carbohydrate Chemistry** J S Brimacombe,2007-10-31 Carbohydrate Chemistry provides review coverage of all publications relevant to the chemistry of monosaccharides and oligosaccharides in a given year The amount of research in this field appearing in the organic chemical literature is increasing because of the enhanced importance of the subject especially in areas of medicinal chemistry and biology In no part of the field is this more apparent than in the synthesis of oligosaccharides required by scientists working in glycobiology Glycomedicinal chemistry and its reliance on carbohydrate synthesis is now very well established for example by the preparation of specific carbohydrate based antigens especially cancer specific oligosaccharides and glycoconjugates Coverage of topics such as nucleosides amino sugars alditols and cyclitols also covers much research of relevance to biological and medicinal chemistry Each volume of the series brings together references to all

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Molecular Techniques in Food Biology Aly Farag El Sheikha, Robert E. Levin, Jianping Xu, 2018-04-09. Molecular Techniques in Food Biology: Safety, Biotechnology, Authenticity, Traceability explores all aspects of microbe-food interactions, especially as they pertain to food safety. Traditional morphological, physiological, and biochemical techniques for the detection, differentiation, and identification of microorganisms have severe limitations. As an alternative, many of those responsible for monitoring food safety are turning to molecular tools for identifying foodborne microorganisms. This book reviews the latest molecular techniques for detecting, identifying, and tracing microorganisms in food, addressing both good foodborne microbes such as those used for fermentation and in probiotics and harmful ones responsible for foodborne illness and food quality control problems. Molecular Techniques in Food Biology: Safety, Biotechnology, Authenticity, Traceability brings together contributions by leading international authorities in food biology from academia, industry, and government. Chapters cover food microbiology, food mycology, biochemistry, microbial ecology, food biotechnology, and bio-processing food, authenticity, food origin, traceability, and food science and technology. Throughout, special emphasis is placed on novel molecular techniques relevant to food biology research and for monitoring and assessing food safety and quality. Brings together contributions from scientists at the leading edge of the revolution in molecular food biology. Explores how molecular techniques can satisfy the dire need to deepen our understanding of how microbial communities develop in foods of all types and in all forms. Covers all aspects of food safety and hygiene, microbial ecology, food biotechnology, and bio-processing food, authenticity, food origin, traceability, and more. Fills a yawning gap in the world literature on food traceability using molecular techniques. This book is an important working resource for professionals in agricultural food science, biomedicine, and government involved in food regulation and safety. It is also an excellent reference for advanced students in agriculture, food science, and food technology, biochemistry, microbiology, and biotechnology, as well as academic researchers in those fields.

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