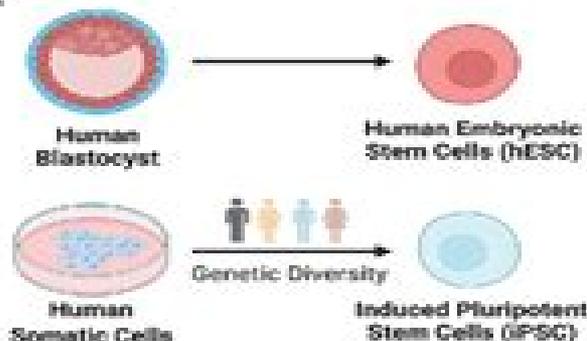


## Human Pluripotent Stem Cells (hPSCs) as a Model System

A



### Advantages of hPSCs

#### Genetically Modified Stem Cells

- Fluorescent reporter lines
- Gene deletions
- Genetic polymorphisms

#### Disease Modelling with iPSCs

e.g. Type 1 diabetes, type 2 diabetes, maturity onset diabetes of the young (MODY)

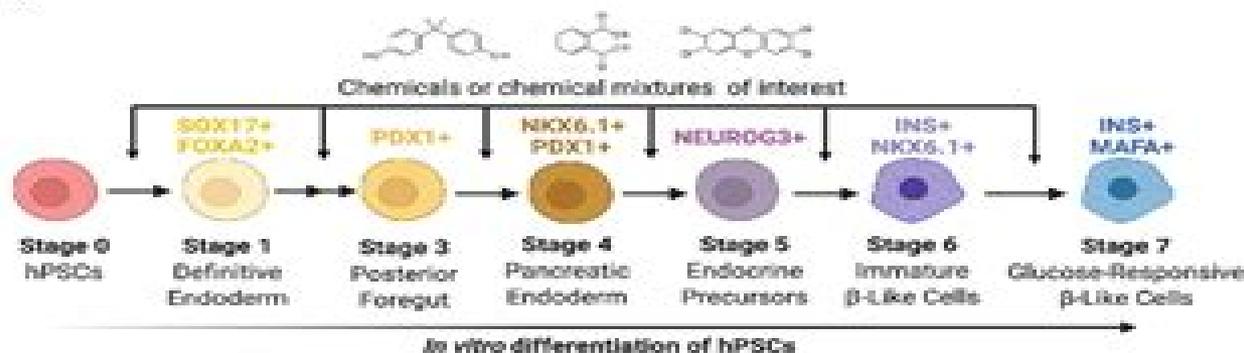
#### Scale-Up or -Down of Stem Cell Culture and Differentiation

e.g. Bioreactors, flasks, 384-well plate

### Key Characteristics of hPSC-Derived $\beta$ -Like Cells

- ✓ Scalable
- ✓ Accessible
- ✓ Reproducible
- ✓ Genetically diverse
- ✓ Biologically relevant
- ✓ Glucose-responsive

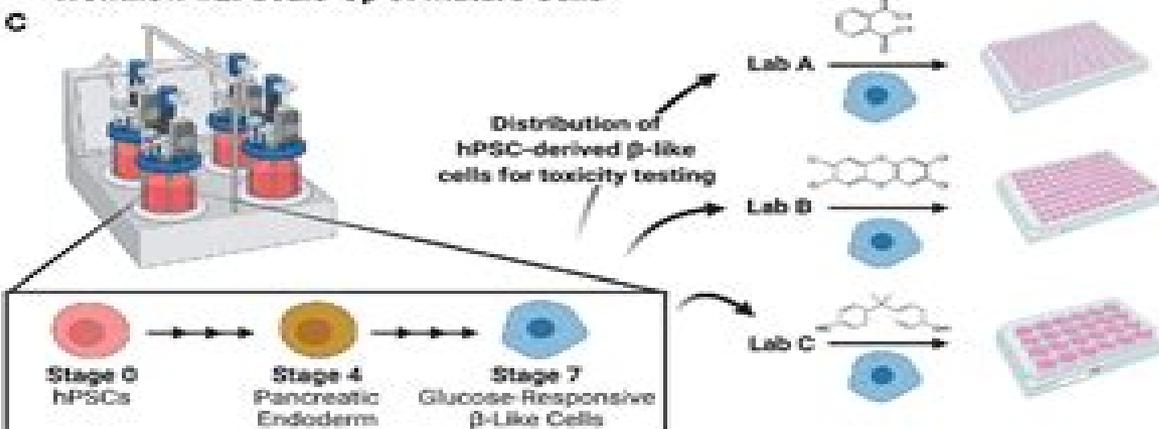
## B Workflow #1: Developmental Studies



### Toxicity Endpoints in Pancreatic Progenitor or Endocrine Cells

- ✓ Gene/protein expression of key markers
- ✓ Glucose-stimulated insulin secretion
- ✓ Insulin response to other secretagogues
- ✓ Cell survival
- ✓ Mitochondrial function
- ✓ Metabolic adaptation
- ✓ Cellular morphology
- ✓ Calcium imaging
- ✓ Enzyme activity

## C Workflow #2: Scale-Up of Mature Cells

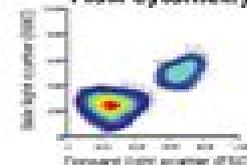


Outsource large-scale hPSC production and differentiation

### Microscopy and live-cell imaging



### Flow cytometry



# Cellular Systems For Toxicity Testing

**Jin-Ying Zhang**



## **Cellular Systems For Toxicity Testing:**

**Cellular Systems for Toxicity Testing** Gary M. Williams, Virginia C. Dunkel, V. A. Ray, 1983 Contents Metabolism and End Points of In Vitro Systems Cytotoxicity DNA Damage Chromosome Effects Mutagenicity Systems Mammalian Mutagenesis Transformation Systems Effects of Tumor Promoters Mechanistic Significance and Relevance of Short Term Tests Application of Short Term Tests to Chemical Safety Evaluation and Poster Papers **Veterinary Toxicology** Ramesh C Gupta, 2011-04-28 Veterinary Toxicology 2nd edition is a unique single reference that teaches the basic principles of veterinary toxicology and builds upon these principles to offer an essential clinical resource for those practicing in the field This reference book is thoroughly updated with new chapters and the latest coverage of topics that are essential to research veterinary toxicologists students professors clinicians and environmentalists Key areas include melamine and cyanuric acid toxicogenomics veterinary medical geology toxic gases toxicity and safety evaluation of new veterinary pharmaceuticals and much more The 2nd edition of this popular book represents the collective wisdom of leading contributors worldwide and continues to fill an undeniable need in the literature relating to veterinary toxicology New chapters covering important and timely topics such as melamine and cyanuric acid toxicogenomics toxic gases and veterinary medical geology Expanded look at international topics such as epidemiology of animal poisonings regulatory guidelines and poisonous plants in Europe Heavily contributed book with chapters written by qualified and well experienced authorities across all areas of veterinary toxicology Problem solving strategies are offered for treatment as well as in depth knowledge of the basic mechanisms of veterinary toxicology Hayes' Principles and Methods of Toxicology, Sixth Edition A. Wallace Hayes, Claire L. Kruger, 2014-10-10 Hayes Principles and Methods of Toxicology has long been established as a reliable reference to the concepts methodologies and assessments integral to toxicology The new sixth edition has been revised and updated while maintaining the same high standards that have made this volume a benchmark resource in the field With new authors and new chapters that address the advances and developments since the fifth edition the book presents everything toxicologists and students need to know to understand hazards and mechanisms of toxicity enabling them to better assess risk The book begins with the four basic principles of toxicology dose matters people differ everything transforms and timing is crucial The contributors discuss various agents of toxicity including foodborne solvents crop protection chemicals radiation and plant and animal toxins They examine various methods for defining and measuring toxicity in a host of areas including genetics carcinogenicity toxicity in major body systems and the environment This new edition contains an expanded glossary reflecting significant changes in the field New topics in this edition include The importance of dose response Systems toxicology Food safety The humane use and care of animals Neurotoxicology The comprehensive coverage and clear writing style make this volume an invaluable text for students and a one stop reference for professionals **Toxicology for the Health and Pharmaceutical Sciences** Antonio Peña-Fernández, Mark D. Evans, Marcus S. Cooke, 2021-12-21 There is an

increasing need for knowledge of toxicology to safeguard the use of chemicals in industry and in the public and private sectors The study of toxicology is becoming increasingly relevant in human health sciences as future health and clinical professionals will be pivotal in addressing and managing emerging chemical threats and hazards related to modern anthropogenic activities and technological development Comprising a series of chapters from leading toxicology pharmacy and public health academics and experts across Europe the United States and beyond Toxicology for the Health and Pharmaceutical Sciences provides a concise yet comprehensive volume that can be used as a relevant textbook on toxicology for the clinical healthcare educational and professional sectors Key Features Includes cutting edge information regarding the very latest environmental threats to public health Provides a detailed case study based on a real world scenario that allows the reader to practice human health risk assessment Describes innovative guidance and tools to respond to chemical incidents and attacks which enables the reader to tailor an effective protection and remediation response This book covers the fundamentals and recent developments in toxicology to respond to local and global chemical pharmaceutical and environmental threats Thus this volume has chapters specifically designed to support the understanding of the most current toxicology related subjects for any undergraduate postgraduate health programs as well as aid the delivery of continuing professional development training on up to date topics in toxicology for current practicing health professionals wishing to improve their background knowledge in toxicology The book is also vital reading and reference for policy makers and others that influence and set regulations that have an impact on the environment and human health

**Review of Current DHHS, DOE, and EPA Research Related to Toxicology**, 1991 *Hayes' Principles and Methods of Toxicology* A. Wallace Hayes, Tetyana Kobets, 2023-07-03 Hayes Principles and Methods of Toxicology has long been established as a reliable and informative reference for the concepts methodologies and assessments integral to toxicology The new edition contains updated and new chapters with the addition of new authors while maintaining the same high standards that have made this book a benchmark resource in the field Key Features The comprehensive yet concise coverage of various aspects of fundamental and applied toxicology makes this book a valuable resource for educators students and professionals Questions provided at the end of each chapter allow readers to test their knowledge and understanding of the material covered All chapters have been updated and over 60 new authors have been added to reflect the dynamic nature of toxicological sciences New topics in this edition include Safety Assessment of Cosmetics and Personal Care Products The Importance of the Dose Rate Response Novel Approaches and Alternative Models Epigenetic Toxicology and an Expanded Glossary The volume is divided into 4 major sections addressing fundamental principles of toxicology Section I Principles of Toxicology major classes of established chemical hazards Section II Agents current methods used for the assessment of various endpoints indicative of chemical toxicity Section III Methods as well as toxicology of specific target systems and organs Section IV Organ and System Specific Toxicology This volume will be a valuable tool for the audience that wishes to broaden their understanding of

hazards and mechanisms of toxicity and to stay on top of the emerging methods and concepts of the rapidly advancing field of toxicology and risk assessment *Comprehensive Toxicology*, 2017-12-01 *Comprehensive Toxicology Third Edition Fifteen Volume Set* discusses chemical effects on biological systems with a focus on understanding the mechanisms by which chemicals induce adverse health effects Organized by organ system this comprehensive reference work addresses the toxicological effects of chemicals on the immune system the hematopoietic system cardiovascular system respiratory system hepatic toxicology renal toxicology gastrointestinal toxicology reproductive and endocrine toxicology neuro and behavioral toxicology developmental toxicology and carcinogenesis also including critical sections that cover the general principles of toxicology cellular and molecular toxicology biotransformation and toxicology testing and evaluation Each section is examined in state of the art chapters written by domain experts providing key information to support the investigations of researchers across the medical veterinary food environment and chemical research industries and national and international regulatory agencies Thoroughly revised and expanded to 15 volumes that include the latest advances in research and uniquely organized by organ system for ease of reference and diagnosis this new edition is an essential reference for researchers of toxicology Organized to cover both the fundamental principles of toxicology and unique aspects of major organ systems Thoroughly revised to include the latest advances in the toxicological effects of chemicals on the immune system Features additional coverage throughout and a new volume on toxicology of the hematopoietic system Presents in depth comprehensive coverage from an international author base of domain experts **Combined Drug Toxicity to HeLa Cells in the MIT-24 Test System and Its Relevance to Human Drug Toxicity** Björn Ekwall, 1980 **Proceedings of the Aquatic Toxicity Workshop**, 1976 **Application of Cellular Systems in Drug Metabolism and Toxicity Studies**, 1993 Toxicological Profile for Di-n-octylphthalate, 1997 **Handbook of Pesticide Toxicology: General principles** Wayland Jackson Hayes (Jr.), Wayland J. Hayes, Edward R. Laws, 1991 V 1 General principles v 2 3 Classes of pesticides Alternatives to Laboratory Animals, 2004 National Toxicology Program : Annual Plan United States. Public Health Service, 1985 *Handbook of Biomaterials Evaluation* Andreas Von Recum, 1986 *Proceedings of the International Symposium on Ciguatera and Marine Natural Products, August 8-10, 1994* Yoshitsugi Hokama, 1995 *Toxicological Profile for Chlorinated Dibenzo-p-dioxins*, 1998 Toxicological Profile for Mirex and Chlordecone, 1995 **Toxicological Profile for Bromoform and Chlorodibromomethane**, 1990 **Toxicological Profile for Benzo[a]pyrene**, 1990

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