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many important
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exist, we
believe the ones
outlined below
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and thus have
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Obesity And Cardiometabolic

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directed by
Professor
Pattou, is a
research unit
whose main focus
is the treatment
of diabetes.
This is done
primarily

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through islet transplantation, a form of cell therapy for the treatment of unstable type 1 diabetes, and through the biological study of islets of Langerhans in glycemic regulation.

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to aid the

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alcoholic fatty

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liver disease
(NAFLD) and
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research methods
to assess the
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and
pharmacodynamics
of new diabetes
drugs, e.g. the
euglycemic clamp

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technique, have become well-established in proof-of-mechanism

studies. However, selection of the most appropriate techniques is by no means straightforward.

Moreover, the application of

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such methods must conform to the regulatory requirements for new drugs. This book discusses the need for new pharmacotherapies for diabetes, obesity and NAFLD and the molecular targets of drugs currently in

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development.

Emerging
technologies
including

functional

imaging,
circulating
biomarkers and

omics are

considered
together with
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research and
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Development A
The world is
beset by a
pandemic of
obesity and type

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2 diabetes and the need for new drugs is startlingly clear; recent years have seen a huge increase in research activity to fill this gap. The development of new drugs for diabetes and obesity must be

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founded upon a sound appreciation of the pathophysiology of these common disorders. The dual defects of insulin resistance and impaired insulin secretion are fundamental to the pathogenesis

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and progression
of obesity-
associated type
2 diabetes.

There is a need
to explain how
new drugs can
counter insulin
resistance and
insulin
deficiency to a
broad range of
professionals,
from clinical

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scientists
active in early
(and later)
phase drug
development to
specialist
physicians and
increasingly
primary care
doctors who must
tailor drug
regimens to the
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Clinical
research methods
for measuring
insulin action
and insulin
secretion have
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studies;
however,
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best techniques

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is by no means straightforward. The purpose of the book is to aid the selection of the most appropriate techniques for assessing insulin action, insulin secretion and body composition in humans (with

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particular
reference to new
drugs) in phase
1 and 2 studies
and aid the
understanding of
drug effects and
non-drug
treatment
strategies on
key biochemical-
hormonal defects
of obesity and
type 2 diabetes.

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The book will assume a working knowledge of human physiology relating to glucose metabolism and will be of interest to biomedical scientists, pharmacologists, academics involved in

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research and
clinicians
practicing in
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specialties.

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challenge of
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recognizing the
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research. At the
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practice; making
it difficult for
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receive its
benefits. Since
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Overall, the
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at such an
alarming rate

that it can be
described as a
global epidemic.

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