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*small molecules in the fields
of cancer research, CNS
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significant challenge in early drug discovery. Small molecules are low molecular weight organic compounds that include natural products and metabolites, as well as drugs and other xenobiotics.

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*diseases where a target is
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contribute to a disease
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from the interface of chemistry and biology. In some cases, the essential molecular features for drug properties from natural molecules may be identified and modified to more

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effective ones. In other cases, nature provides the targets, such as essential enzymes from infectious microorganisms, from which synthetic drugs can be designed. The mechanisms

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of action of drugs can be discerned by studying target-drug interactions. Nature may fight back, as in cases when microorganisms become resistant to drugs, but we can again use the

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*chemistry-biology interface
to obtain drugs which
overcome the resistance.*

*The battle goes on, hopefully
with victory for both humans
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book differs from those*

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*certain chemical compounds — plays
an essential role in our world: chiral
compounds can be found in biology,
pharmaceutical compounds,
agrochemicals, and fragrances. The
stereoselective preparation of these
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constitutes a challenge. To this end, modern asymmetric synthesis utilizes a variety of valuable and efficient reagents employed as chiral auxiliaries, metal complexes and organocatalysts in stereoselective catalysis, and enantiopure reactants

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*termed as chiral building blocks. In
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*important classes of these reactants as
the key for the asymmetric synthesis
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inter- tion of small organic molecules with biological systems (mostly proteins) underpins drug discovery in the pharmaceutical and biotechnology industries, and therefore a volume of laboratory protocols that covers the key aspects of chemical genomics would be

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of use to biologists and chemists in these organizations. Academic scientists have been exploring the functions of proteins using small molecules as probes for many years and therefore would also benefit from sharing ideas and laboratory procedures. Whatever

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the organizational backgrounds of the scientists involved, the challenges of extracting the maximum human benefit from genome sequencing projects remains considerable, and one where it is increasingly recognized that chemical genomics will play an important part.

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on the struggles, challenges,
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to theories of design and digital search. Several chapters engage with theories of the behavior of individuals and groups; some deal with processes of evaluation; others reflect on questions of design; and the rest

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treat cultural and scientific heritage. The ultimate goal, Sonnenwald writes in her introduction, is to “ encourage, inspire, and assist individuals striving to develop and/or teach theory development. ”

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