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Titolo	Chirality in drug research [[electronic resource] /] / edited by Eric Francotte and Wolfgang Lindner
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ISBN	1-281-08787-4 9786611087876 3-527-60943-1 3-527-60871-0
Descrizione fisica	1 online resource (373 p.)
Collana	Methods and principles in medicinal chemistry ; ; v. 33
Altri autori (Persone)	FrancotteEric LindnerW (Wolfgang)
Disciplina	615.19
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Formato	Materiale a stampa
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chiral drugs from a historical point of view / Joseph Gal -- Stereoselective synthesis of drugs : an industrial perspective / Hans-Jurgen Federsel -- Aspects of chirality in natural products drug discovery / Philipp Krastel, Frank Petersen, Silvio Roggo, Esther Schmitt, Ansgar Schuffenhauer -- Biotransformation methods for preparing chiral drugs and drug intermediates / Michael Muller, Marcel Wubbolts -- Resolution of chiral drugs and drug intermediates by crystallisation / Kazuhiko Saigo and Kenichi Sakai -- Isolation and production of optically pure drugs by enantioselective chromatography / Eric Francotte -- Stereoselective chromatographic methods for drug analysis / Norbert M. Maier, Wolfgang Lindner -- Capillary electrophoresis coupled to mass spectrometry for chiral drugs analysis / Serge Rudaz, Jean-Luc Veuthey -- Powerful chiral molecular tools for

preparation of enantiopure alcohols and simultaneous determination of their absolute configurations by X-ray crystallography and/or p1 sH NMR anisotropy methods / Nobuyuki Harada -- Keywords in chirality modeling : molecular modeling of chirality : software and literature research on chirality in modeling, chirality in docking, chiral ligand-receptor interaction and symmetry / Gerd Folkers, Mine Yarim, Pavel Pospisil.

Sommario/riassunto

Divided into the three main sections of synthesis, analysis and drug development, this handbook covers all stages of the drug development process, including large-scale synthesis and purification of chirally pure pharmaceuticals. The two editors from academia and a major pharmaceutical company have assembled an experienced, international team who provide first-hand practical advice and report previously unpublished data. In the first section, the isolation of chiral drugs from natural sources, their production in enzymatic processes and the resolution of racemic mixtures in preparative

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Autore

Metz Florence

Titolo

From Network Structure to Policy Design in Water Protection : A Comparative Perspective on Micropollutants in the Rhine River Riparian Countries // by Florence Metz

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Nota di contenuto

Chapter 1. Introduction -- Chapter 2. Theory -- Chapter 3. Case selection -- Chapter 4. Research design and methods -- Chapter 5. Results -- Chapter 6. Discussion: Can policy networks explain some part of the variance of policy design? -- Chapter 7. Conclusion.

Sommario/riassunto

The book examines a new concern in water quality policy, namely aquatic micropollutants. Micropollutants are chemicals detected in small concentrations in waterbodies today, originating from pharmaceuticals, cosmetics, or detergents, among others. Since the regulation of micropollutants is a fairly new issue, it has been largely neglected in social sciences. However, the search for appropriate solutions is of high political relevance at both the national and international levels, with many open questions arising that concern the most adequate governance structures and steering mechanisms. Solutions suitable for classical, macro-pollutants, such as nutrients, do not necessarily apply to micropollutants because of the diversity of compounds and sources, and for technical, financial, and societal reasons. The book addresses this knowledge gap by investigating the steering mechanisms at hand and their prospect for problem solving. In this regard, the research provides a systematic depiction and comparison of policy designs in place for the reduction of micropollutants in the Rhine basin. Moreover, the study yields insights into the governance structures in place, into actors' responsibilities and constellations, and policy processes regarding micropollutants. The study is furthermore embedded into broader theoretical questions of policy research. More precisely, this research is a contribution to policy analysis that aims to achieve more optimal policy results by providing for a better understanding of the nature of policy designs and the social mechanisms behind the choice of them. Despite the intrinsic aim of policy analysis at contributing to more optimal policy outcomes, there remains a lack of research regarding analytical tools that enable an ex-ante assessment of policy designs' problem-solving abilities. To explore such a research path, this book proposes a novel index of policy comprehensiveness for quantifying the prospective performance of policy designs in alleviating an underlying policy issue, e.g. reducing pollutants in waters. Furthermore, the book uncovers the social mechanisms behind policymaking and turns to the question: In which social settings is it possible to achieve a comprehensive policy design? Compared to purely micro-level explanations, the advantage of the network approach is that it goes beyond the mere aggregation of policy actors' attributes by taking into consideration actors' interdependencies. In order to take the network approach seriously, the study systematically links the structure of a policy network with comprehensive policy designs. Network concepts, such as coalition structure, interconnectedness, and belief similarity, are employed from policy change research here in order to explore the link between structural network characteristics and comprehensive policy design. By studying how network structures affect policy design, the book critically examines the explanatory value of the network approach.