

1. Record Nr.	UNINA9910253869403321
Titolo	Non-coding RNA and the Reproductive System [[electronic resource] /] / edited by Dagmar Wilhelm, Pascal Bernard
Pubbl/distr/stampa	Dordrecht : , : Springer Netherlands : , : Imprint : Springer, , 2016
ISBN	94-017-7417-X
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (201 p.)
Collana	Advances in Experimental Medicine and Biology, , 0065-2598 ; ; 886
Disciplina	572.88
Soggetti	Medical genetics Developmental biology Reproductive medicine Gene Function Developmental Biology Reproductive Medicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Sommario/riassunto	This book provides an overview of the role and function of regulatory RNAs that lack protein-coding potential in key reproductive tissues. This includes the role of small interfering RNAs (siRNAs), microRNAs (miRNAs), PIWI-interacting RNAs (piRNAs), small nucleolar RNAs (snoRNAs) and long non-coding RNAs (lncRNAs). Through clear, detailed and comprehensive debate, international leading experts discuss the role these novel regulators in normal development of sexual dimorphisms, including the differentiation of ovaries and testes, the genital tract including prostate, epididymis and uterus, as well as mammary glands. In addition, particular attention is paid on their role in pathophysiological processes within the reproductive tract. The power of next generation sequencing has proved to be an invaluable tool to discover new non-coding RNAs. While the identification of non-coding RNA is relatively easy, analysing their function represents still a challenge today. In this book, authors present historical and conceptual background information, highlight the ways in which non-coding RNAs

function is analysed and present their vision of the future research in their key research area.
