

1. Record Nr.	UNISALENTO991004265224407536
Autore	Liu, Wei
Titolo	Stochastic partial differential equations : an introduction / Wei Liu, Michael Röckner
Pubbl/distr/stampa	Cham [etc.] : Springer, c2015
ISBN	9783319223537
Descrizione fisica	vi, 266 p. ; 24 cm
Collana	Universitext, 2191-6675
Classificazione	AMS 60H15 LC QA274.25 AMS 35R60
Altri autori (Persone)	Röckner, Michaelauthor
Disciplina	519.2
Soggetti	Stochastic partial differential equations Partial differential equations Probabilities
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references (p. 261-264) and index
Sommario/riassunto	This book provides an introduction to the theory of stochastic partial differential equations (SPDEs) of evolutionary type. SPDEs are one of the main research directions in probability theory with several wide ranging applications. Many types of dynamics with stochastic influence in nature or man-made complex systems can be modelled by such equations. The theory of SPDEs is based both on the theory of deterministic partial differential equations, as well as on modern stochastic analysis. Whilst this volume mainly follows the 'variational approach', it also contains a short account on the 'semigroup (or mild solution) approach'. In particular, the volume contains a complete presentation of the main existence and uniqueness results in the case of locally monotone coefficients. Various types of generalized coercivity conditions are shown to guarantee non-explosion, but also a systematic approach to treat SPDEs with explosion in finite time is developed. It is, so far, the only book where the latter and the 'locally monotone case' is presented in a detailed and complete way for SPDEs. The extension to this more general framework for SPDEs, for example, in comparison to the well-known case of globally monotone

coefficients, substantially widens the applicability of the results. In addition, it leads to a unified approach and to simplified proofs in many classical examples. These include a large number of SPDEs not covered by the 'globally monotone case', such as, for example, stochastic Burgers or stochastic 2D and 3D Navier-Stokes equations, stochastic Cahn-Hilliard equations and stochastic surface growth models. To keep the book self-contained and prerequisites low, necessary results about SDEs in finite dimensions are also included with complete proofs as well as a chapter on stochastic integration on Hilbert spaces. Further fundamentals (for example, a detailed account on the Yamada-Watanabe theorem in infinite dimensions) used in the book have added proofs in the appendix. The book can be used as a textbook for a one-year graduate course

2. Record Nr.	UNINA9910830564403321
Titolo	Mast cells and basophils [[electronic resource]] : development, activation and roles in allergic/autoimmune disease
Pubbl/distr/stampa	Chichester, : John Wiley, 2005
ISBN	1-280-30875-3 9786610308750 0-470-03344-4 0-470-03051-8
Descrizione fisica	1 online resource (275 p.)
Collana	Novartis Foundation symposium ; ; 271
Altri autori (Persone)	ChadwickDerek GoodeJamie
Disciplina	616.079
Soggetti	Mast cells Basophils
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Symposium on mast cells and basophils : development, activation and roles in allergic/autoimmune disease, held at the Novartis Foundation, London, 16-18 November 2004.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	MAST CELLS AND BASOPHILS: DEVELOPMENT, ACTIVATION AND ROLES

IN ALLERGIC/AUTOIMMUNE DISEASE; Contents; Participants; Chair's introduction; MITF and SgIGSF: an essential transcription factor and its target adhesion molecule for development and survival of mast cells; Discussion; Immune sensitization in the skin is enhanced by antigen-independent effects of IgE on mast cells; Discussion; The role of Src family kinases in mast cell effector function; Discussion; RasGRP4 in mast-cell signalling and disease susceptibility; Discussion Regulation of mast cell secretory response to the type I Fce receptor: inhibitory elements and desensitisation Discussion; General discussion I; IgE regulation of mast cell survival and function; Discussion; RabGEF1, a negative regulator of Ras signalling, mast cell activation and skin inflammation; Discussion; Role of CC chemokines and their receptors in multiple aspects of mast cell biology: comparative protein profiling of FceRI- and/or CCR1-engaged mast cells using protein chip technology; Discussion; The role of phosphoinositide-3-kinase in mast cell homing to the gastrointestinal tract Discussion The mast cell and the cysteinyl leukotrienes; Discussion; Regulation of gene expression in mast cells: micro-RNA expression and chromatin structural analysis of cytokine genes; Discussion; The involvement of Bcl-2 in mast cell apoptosis; Discussion; General discussion II; General discussion III; Mast cells in autoantibody responses and arthritis; Discussion; MASTering the immune response: mast cells in autoimmunity; Discussion; Mastocytosis; Discussion; Index of contributors; Subject index

Sommario/riassunto

The book presents recent advances relating to the factors and mechanisms that regulate the growth, differentiation and function of mast cells and basophils; discussion of new technologies used to study these cells, and integration of the basic scientific findings in the context of therapeutic possibilities for the treatment of diseases such as allergic inflammation and autoimmune disease which are mediated, in part, by these granulocytes.
