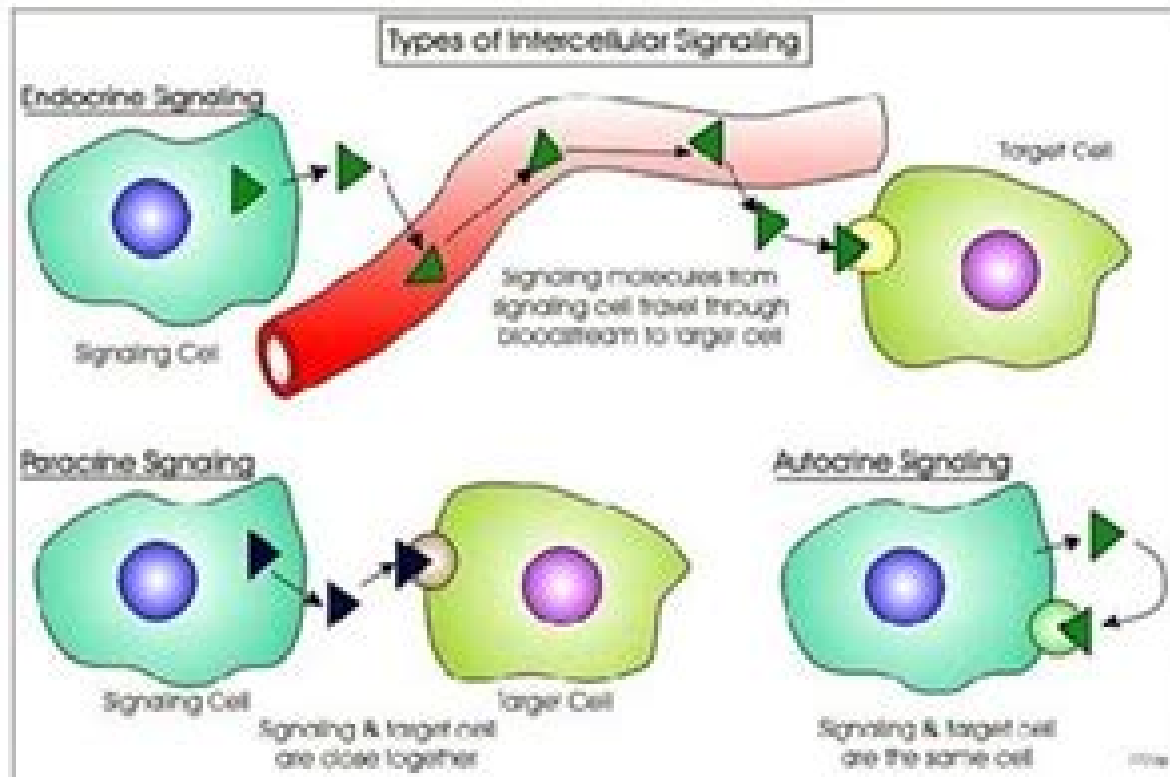


Ch.11: Cell Communication



Biology Guide Cell Communication

**Ajaykumar Vishwakarma, Jeffrey M
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photoluminescence Fourier transform infrared spectroscopy FTIR Atomic absorption spectroscopy AAS and dynamic light scattering spectroscopy DLS Nanomaterials in bio sensors and other applications and Interaction of nanomaterials Molecular basis of nano formulations 33 Biodiversity and Environmental Health Biodiversity of Medicinal plants and animals Concept and Practices of environmental health Pathways for synthesis of primary and secondary metabolites and their uses Pharmacological properties of secondary and active metabolites of medicinal plants used in yurveda Concept of ecosystem structure function and types of ecosystem energy flow in an ecosystem food chain food web and ecological succession 34 Biodiversity and its conservation Levels of biological diversity biogeography zones of India biodiversity patterns and global biodiversity hot spots India as a megabiodiversity nation Renewable and non renewable biological resources and their importance in longevity of life Degradation of biodiversity loss of medicinal plants and animal life and its impact on indigenous knowledge 35 Intellectual Property Rights IPR Concept meaning and types of Intellectual Property IP Origin nature philosophy and importance of Intellectual Property Rights IPR Current Best Practices CBP and legal framework of IPR Protection of Traditional Knowledge System TKS prevention of bio piracy and bioprospecting benefits to national economy conservation of environment protection of livelihood of TK stake holders TKS and innovation in Indian medicine system Introduction to the Indian patent office and National Biodiversity Authority and their role in the protection of TKS Different types of IPR protection in India Indian Legislations Patents Act of India 1970 Biological Diversity Act 2002 Convention of Biological Diversity 1992 Plant Protection Variety and Farmers Rights Act 2001 and Geographical Indication Act 1999 etc with respect to TKS The role of databases and registers in the legal protection of TKS Traditional Knowledge Digital Library TKDL through World Intellectual Property Organisation WIPO WTO TRIPS World Intellectual Property Organisation WIPO Convention on Biological Diversity CBD FAO Nagoya Protocol on access and benefit sharing 36 Entrepreneurship Definition of Entrepreneur Entrepreneurial traits and Entrepreneur versus Manager Entrepreneurial decision processes Ethical Legal and Socio cultural responsibilities Opportunities for Entrepreneurs in relation to food and drugs of Ayurveda for wellness Innovations and new ideas in yurveda R Entrepreneurship development programs of public and private agencies MSME Ministry of Ayush Make in India Challenges in yurveda industry and decision making Patenting and Commercialization strategies Laboratory to market strategies and processes of negotiation with financiers government and regulatory authorities Pricing strategy challenges in marketing in yurveda business Distribution channels supply chain Analysis and management of customer needs Business preparation including statutory and legal requirements business feasibility study Financial management in capital procurement and cost management Collaborations and partnership 37 Research Methodology Research Methodologies and Bioethics in yurveda Fundamental principles based research in yurveda Food and drug based research in Ayurveda Pre clinical and Clinical trials types protocol designing and data management in accordance with the principles of yurveda 38 Various extraction methods of plant materials Concept of polarity for extraction and

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Biology and Engineering of Stem Cell Niches Ajaykumar Vishwakarma, Jeffrey M Karp, 2017-03-22 Biology and Engineering of Stem Cell Niches covers a wide spectrum of research and current knowledge on embryonic and adult stem cell niches focusing on the understanding of stem cell niche molecules and signaling mechanisms including cell cell cell matrix interactions The book comprehensively reviews factors regulating stem cell behavior and the corresponding approaches for understanding the subsequent effect of providing the proper matrix molecules mechanical cues and or chemical cues It encompasses a variety of tools and techniques for developing biomaterials based methods to model synthetic stem cell niches in vivo or to enhance and direct stem cell fate in vitro A final section of the book discusses stem cell niche bioengineering strategies and current advances in each tissue type Includes the importance of Cell Cell and Cell Matrix Interactions in each specific tissue and system Authored and edited by authorities in this emerging and multidisciplinary field Includes valuable links to 5 10 minute YouTube author videos that describe main points

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