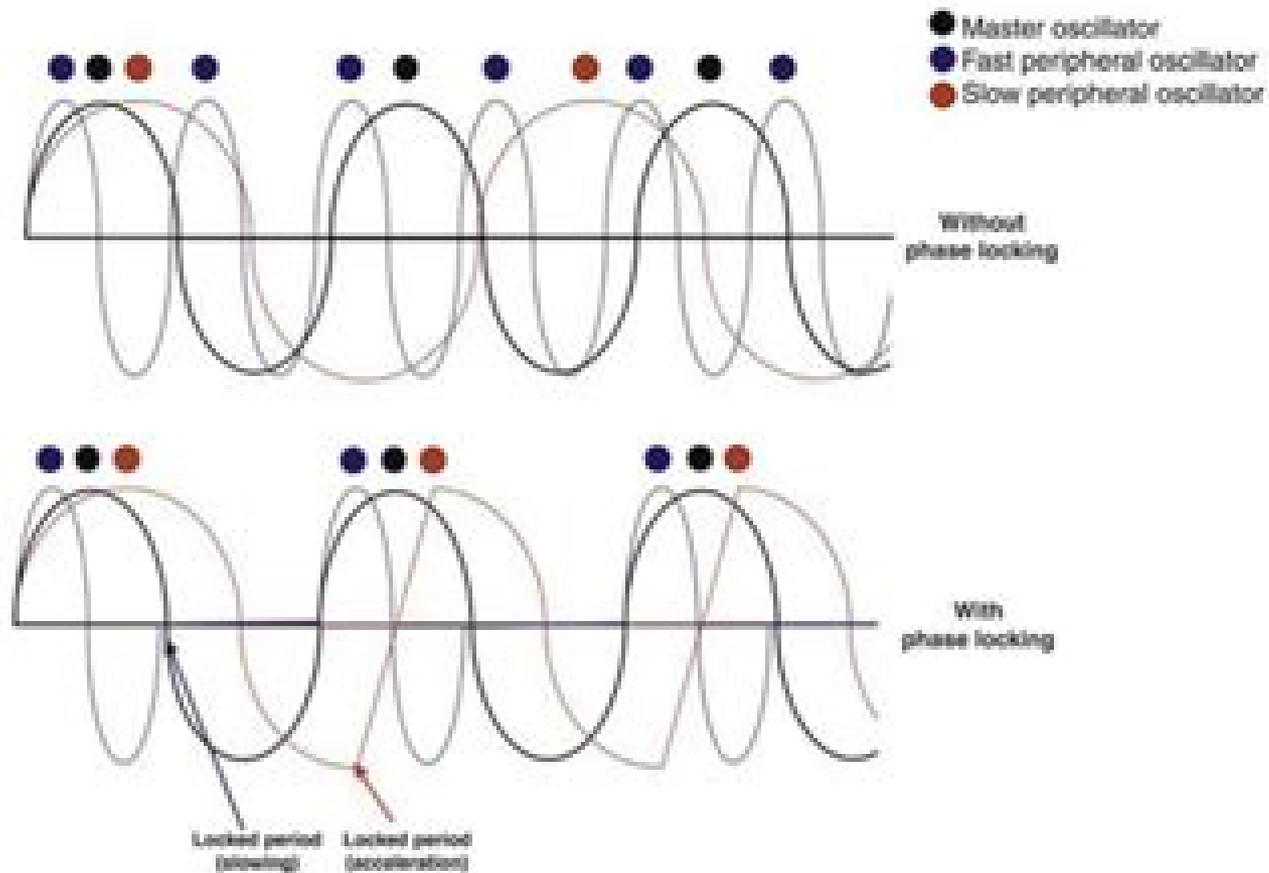


Phase locking of cellular oscillators



Oikonomou & Cross, *Curr. Opin. Genet Devel.* 20, 605 (2010)

Cellular Oscillators

**Thirumalaisamy P.
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Analysis and Control of Cellular Ensembles. Exploiting dimensionality reduction in single-cell data and models Karsten Kuritz, 2020-11-20 An ensemble system is a collection of nearly identical dynamical systems which admit a certain degree of heterogeneity and which are subject to the restriction that they may only be manipulated or observed as a whole This thesis presents analysis and control methods for cellular ensembles by considering reduced 1 dimensional dynamics of biological processes in high dimensional single cell data and models To be more specific we address the quest for real time analysis of biological processes within single cell data by introducing the measure preserving map of pseudotime into real time in short MAPiT MAPiT enables the reconstruction of temporal and spatial dynamics from single cell snapshot experiments In addition we propose a PDE constrained learning algorithm which allows for efficient inference of changes in cell cycle progression from time series single cell snapshot data The second part of this thesis is devoted to controlling a heterogeneous cell population in the sense that we aim at achieving a desired distribution of cellular oscillators on their periodic orbit A systems theoretic approach to the ensemble control problem provides novel necessary and sufficient conditions for the control of phase distributions in terms of the Fourier coefficients of the phase response curve This thesis establishes a connection between the previously separate areas of single cell analysis and ensemble control Our holistic view opens new perspectives for theoretic concepts in basic research and therapeutic strategies in precision medicine

The Neurobiology of Circadian Timing, 2012-12-06 Leading authors review the state of the art in their field of investigation and provide their views and perspectives for future research Chapters are extensively referenced to provide readers with a comprehensive list of resources on the topics covered All chapters include comprehensive background information and are written in a clear form that is also accessible to the non specialist Leading authors review the state of the art in their field of investigation and provide their views and perspectives for future research

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Principles and Practice of Sleep Medicine E-Book Meir H. Kryger, Thomas Roth, William C. Dement, 2010-11-01 Principles and Practice of Sleep Medicine 5th Edition by Meir H Kryger MD FRCPC Thomas Roth PhD and William C Dement MD PhD delivers the comprehensive dependable guidance you need to effectively diagnose and manage even the most challenging sleep disorders Updates to genetics and circadian rhythms occupational health sleep in older people memory and sleep physical examination of the patient comorbid insomnias and much more keep you current on the newest areas of the field A greater emphasis on evidence based approaches helps you make the most well informed clinical decisions And a new more user friendly full color format both in print and online lets you find the answers you need more quickly and easily Whether you are preparing for the new sleep medicine fellowship examination or simply want to offer your patients today s best care this is the one resource to use Make optimal use of the newest scientific discoveries and clinical approaches that are advancing the diagnosis and management of sleep disorders Stay on top of the hottest topics in sleep medicine with 56 new chapters including Postpartum Sleep Disturbances Fatigue Risk Management What does Brain Imaging Reveal about Sleep Genesis and Maintenance Physician Examination of the Sleep Patient Forensic Sleep Medicine Pathophysiology and Models of Insomnia Treatment of Insomnia Developing Treatment Guidelines Restrictive Lung Disorders Sleep Medicine in the Elderly Obstructive Obstructive Sleep Apnea Metabolic and Renal Disorders Sleep Apnea Obesity and Bariatric Surgery Sleep and Renal Disease Theories of Dreaming Why We Dream Sleep Stress and Burnout Evaluating Sleep EEG and Sleep Stage Scoring And more Master the newest areas in the field with 5 new sections covering Sleep Mechanisms and Phylogeny Genetics of Sleep Physiology in Sleep Occupational Sleep Medicine Sleep Medicine in the Elderly Access the complete contents online fully searchable and follow links to abstracts for most bibliographical references Apply evidence based approaches wherever available Find answers more easily thanks to a new user friendly full color format

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omission of many important current aspects e.g. we have not included any of the fascinating and indeed long and well established experiments with plants Bunning 1971 1977 Guillaume and Koukkari 1987 Millet et al 1988 10hnsson et al 1990 that are widely regarded as having initiated the whole field of chronobiology De Mairan 1729 Neither have we reviewed recent developments on glycolytic oscillations since a great deal of the seminal work was already completed by 1973 Chance et al 1973 Proceedings of the 1995 World Congress on Neural Networks Joseph T. DeWitte,2019-02-21 Centered around major topic areas of both theoretical and practical importance the World Congress on Neural Networks provides its registrants from a diverse background encompassing industry academia and government with the latest research and applications in the neural network field **Encyclopedia of Neuroscience, Volume 1** Larry R. Squire,2009-06-12 The Encyclopedia of the Neuroscience explores all areas of the discipline in its focused entries on a wide variety of topics in neurology neurosurgery psychiatry and other related areas of neuroscience Each article is written by an expert in that specific domain and peer reviewed by the advisory board before acceptance into the encyclopedia Each article contains a glossary introduction a reference section and cross references to other related encyclopedia articles Written at a level suitable for university undergraduates the breadth and depth of coverage will appeal beyond undergraduates to professionals and academics in related fields Cellular Oscillators Michael J. Berridge,P. E. Rapp,J. E. Treherne,1979 **An Introduction to Biological Rhythms** David Stanley Saunders,1977 Endocytobiosis and Cell Research ,1988 *Cell Cycle Clocks* Leland N. Edmunds,1984-05-24 **European Journal of Cell Biology** ,1983 *Reproduction* ,2002-12 **Introduction to a Biological Systems Science** Edward H. Bloch,United States. National Aeronautics and Space Administration,1971 **Abstracts of Papers Presented to the American Mathematical Society** American Mathematical Society,2004 **Progress of Theoretical Physics** ,2006 **Effects of the Local Organ and Systemic Environments on Stem Cell Aging** Morgan Erik Carlson,2008 This work uncovers mechanisms of aging within stem cell niches that are evolutionarily conserved between mice and humans and affect both embryonic and adult stem cells Specifically the effects of aged muscle and systemic niches on key molecular identifiers of regenerative potential of human embryonic stem cells hESCs and postnatal muscle stem cells satellite cells were examined Results reveal that aged differentiated niches dominantly inhibit the expression of Oct4 in hESC and Myf 5 in activated satellite cells and reduce proliferation and myogenic differentiation of both embryonic and tissue specific adult stem cells ASCs Therefore the ability of hESCs and the more differentiated myogenic ASCs to contribute to tissue repair in the old will be restricted due to the conserved inhibitory influence of aged differentiated niches Additionally this work establishes that hESC derived factors enhance the regenerative potential of both young and importantly aged muscle stem cells in vitro and in vivo thus suggesting that the regenerative outcome of stem cell based replacement therapies will be determined by a balance between negative influences of aged tissues on transplanted cells and positive effects of embryonic cells on the endogenous regenerative capacity

Proceedings of the National Academy of Sciences of the United States of America National Academy of Sciences
(U.S.),2006 **Proceedings of the International Union of Physiological Sciences** ,1962

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