

# Cell Size Pogil

POGIL Process Oriented Guided Inquiry Learning (POGIL) Chemists' Guide to Effective Teaching Mechanisms Controlling Cell Size in Animal Cells Shawn R. Simonson Richard Samuel Moog Norbert J. Pienta Shixuan Liu

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process oriented guided inquiry learning pogil is a pedagogy that is based on research on how people learn and has been shown to lead to better student outcomes in many contexts and in a variety of academic disciplines beyond facilitating students mastery of a discipline it promotes vital educational outcomes such as communication skills and critical thinking its active international community of practitioners provides accessible educational development and support for anyone developing related courses having started as a process developed by a group of chemistry professors focused on helping their students better grasp the concepts of general chemistry the pogil project has grown into a dynamic organization of committed instructors who help each other transform classrooms and improve student success develop curricular materials to assist this process conduct research expanding what is known about learning and teaching and provide professional development and collegiality from elementary teachers to college professors as a pedagogy it has been shown to be effective in a variety of content areas and at different educational levels this is an introduction to the process and the community every pogil classroom is different and is a reflection of the uniqueness of the particular context the institution department physical space student body and instructor but follows a common structure in which students work cooperatively in self managed small groups of three or four the group work is focused on activities that are carefully designed and scaffolded to enable students to develop important concepts or to deepen and refine their understanding of those ideas or concepts for themselves based entirely on data provided in class not on prior reading of the textbook or other introduction to the topic the learning environment is structured to support the development of process skills such as teamwork effective communication information processing problem solving and critical thinking the instructor s role is to facilitate the development of student concepts and process skills not to simply deliver content to the students the first part of this book introduces the theoretical and philosophical foundations of pogil pedagogy and summarizes the literature demonstrating its efficacy the second part of the book focusses on implementing pogil covering the formation and effective management of student teams offering guidance on the selection and writing of pogil activities as well as on facilitation teaching large classes and assessment the book concludes with examples of implementation in stem and non stem disciplines as well as guidance on how to get started appendices provide additional resources and information about the pogil project

pogil is a student centered group learning pedagogy based on current learning theory this volume describes pogil s theoretical basis its implementations in diverse environments and evaluation of student outcomes

part of the prentice hall series in educational innovation for chemistry this unique book is a collection of information examples and references on learning theory teaching methods and pedagogical issues related to teaching chemistry to college students in the last several years there has been considerable activity and research in chemical education and the materials in this book integrate the latest developments in chemistry each chapter is written by a chemist who has some expertise in the specific technique discussed

has done some research on the technique and has applied the technique in a chemistry course

although questions on cell size have been investigated for more than half a century molecular mechanisms that program the size of animal cells are only starting to be revealed my ph d research focuses on the molecular mechanisms that promote cell size uniformity in proliferating mammalian cells by relying on a high content small chemical screen i identified candidate proteins and signaling molecules that may function as cell size specifiers intriguingly analysis of the screen hits suggested a role for the p38 mapk in the long sought mammalian cell size checkpoint in follow up experiments i showed that p38 mapk signaling is activated in small but not large cells which selectively inhibits the progression of small cells into s phase consistent with this model chemical and genetic perturbations of p38 resulted in the loss of the compensatory g1 length extension in small cells cells lacking p38 activity proliferated faster were smaller in size and displayed increased size heterogeneity altogether my work suggests that the p38 mapk pathway responds to changes in cell size and regulates g1 exit accordingly to increase cell size uniformity in this thesis i first present an in depth review of the animal cell size research reflecting on literature i summarize in chapter 1 1 a convergence of historical and recent evidence that support size sensing as a cell autonomous function of individual animal cells i also discuss the historical debates on animal cell size sensing and offer my understanding of how these conflicting literature may be resolved through new interpretations in chapter 1 2 i discuss in detail how cell size affects cellular tissue and organismal level functions i hope this inspires more functional and mechanistic research on cell size in the future in the last chapter i further discuss the implications of the p38 signaling and cell size control and introduce in brief the branches of follow up research that emerged from my thesis work

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