


# The manuscript has been selected by JBC as Paper of the Week.


About this book

Over the last 20 years, our knowledge of biochemistry and molecular biology has undergone a revolution that has affected our understanding of the biology of the oral cavity. This book is designed to relate ideas in biochemistry and molecular biology to selected, dentally related topics in physiology, nutrition, anatomy, histology, microbiology and immunology. Dentistry was developed to treat diseases of the teeth; originally, dental caries and periodontal disease, but later genetic diseases, such as impacted and overcrowded teeth, or unusual genetic conditions, such as cleft palate. Treatment has progressed enormously over the last 30 years, like those for many other diseases. New treatments have come in the form of fluoridation as well as applying oral hygiene measures and new materials, but diagnosing and treating the 10% of the population who will become severely affected remains a problem. This book is directly relevant to the practice of dentistry today as background for understanding bone, tooth, saliva and surrounding soft tissue research and also for appreciating how dental caries and periodontal disease might be better diagnosed and controlled in the future.

Content Level D Professional/practitioner

Keywords >> Biochemistry—Bone—Connective tissue—Dentistry—Teeth

Related Subjects » Dentistry - Internal Medicine

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Zhuo Wang (West lab) was given a travel award by the Society for glycobiology for presenting a poster at the 2010 Annual Conference of the Society for glycobiology, St. Petersburg, FL, Nov. 2010.

Guangpu Li, Assays for Rab5 Activity, United States patent 7838249, issued on 11/23/2010.

PATENTS

Kelli Duggan, Research Technician—Hays Lab
Lauren Summers, Research Assistant I—Hays Lab
Heather Hill, Research Technician—Pioszak Lab
Irene Chen, Research Technician—Mooers Lab

OCAST  Dong (PI)1/1/11-12/31/13
Drug development for prostate cancer - $90,000 Annual Direct Costs- Role: Co-PI Hong Chen

Invited Talks

November, 2010. Annual conference of the Society for glycobiology, St. Pete Beach, FL—Dr. Lijun Xia

Dr. Chris West is serving on the J. Biol. Chem. Editorial Board.

Graduate Research Assistant Nigel Otto (DeAngelis lab) presenting his poster at a conference.
Dr. Chris West—Aug. 26, 2010. ‘From Glycomics to oxygen signaling in the model organism *Dictyostelium*’, Dept. of Microbiology, University of Illinois at Urbana-Champaign, Peter Orlean (host). Omitted from the last SDS page.


Dr. Chris West—Dec. 15, 2010. Seminar at Fujian Agricultural and Forestry University (Fuzhou, China). Host: Prof. Zonghua Wang. Title: ‘From Glycomics to oxygen signaling in the social amoeba *Dictyostelium*’.

Dr. Chris West—Dec. 18, 2010. Seminar at Shanghai Jiaotong University College of Agriculture and Biology. Host: Prof. Jie Chen. Title: ‘From Glycomics to oxygen signaling in the social amoeba *Dictyostelium*’.

2010 Annual Conference of the Society for Glycobiology, St. Petersburg, FL, Nov. 2010: C.L. Feasley, J.M. Johnson, C.M. West; the N-Glycomes of Five Cellular Slime Mold Species display Distinct Variations on a High-Mannose Type Theme.

2010 Annual Conference of the Society for Glycobiology, St. Petersburg, FL, Nov. 2010: C.M. West, H. van der Wel, J.M. Johnson, Y. Xu; Recognition of Skp1 by Cytosolic Prolyl 4-Hydroxylase and α-N-Acetylglucosaminyltransferase Enzymes Involved in O2–Signaling in *Dictyostelium*.

Unger Awarded OU Regents' Professorship
OUHSC Public Affairs

Lawton OK -- In recognition of his commitment to medical education and distin-
guished service to the University of Oklahoma Health Sciences Center, the univer-
sity is bestowing a Regents' Professorship upon Leon Unger, David Ross Boyd Pro-
fessor of Biochemistry and Molecular Biology in the OU College of Medicine.

"Dr. Leon Unger richly deserves this recognition," said OU President David L. Boren. "He is a master teacher and his devotion to students is legendary."

For more than 40 years, Unger has worked to redesign, organize and coordinate curriculum. He has designed and taught significant portions of the Biochemistry and Medical Molecular Genetics Course, for which he consistently earns an "excellent" rating from his students. As part of this course, he introduces students to the concepts of medical genetics and medical nutrition. He also has devoted considerable attention to converting traditional biochemistry into a modern multidisciplinary program that includes clinical correlations with students, physicians, patients and families.

For his outstanding achievements, OU College of Medicine students have voted three times to award Unger the Aesculapian Award for Teaching Excellence. In 1993, he was selected to receive the Stanton L. Young Master Teacher Award, the college's most prestigious teaching award. He received nominations from former students and every participating medical student group for that honor. A year later, he was recognized by the Oklahoma Foundation for Excellence with the Oklahoma Medal for Excellence in Teaching at a Research University.

He was awarded a David Ross Boyd Professorship for teaching excellence in 2004 and was recognized with the College of Medicine's Edgar W. Young Lifetime Achievement Award in 2006.

First presented in 1946, Regents' Professorships are awarded to faculty members who have achieved unusual distinction in research, service or their ability to teach and guide students.

To qualify for a Regents' Professorship, a faculty member must display extraordi-
nary achievement in academic administration or professional service resulting in outstanding service to the university, academic community or an academic or pro-
fessional discipline. In recognition of the high level of achievement, Regents' Pro-
fessorships are accompanied by a one-time award of $7,000 and a permanent an-
nual 7 percent salary increase.
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