

Richard C. Roberts (Rick)

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Summary

A heartbeat for teaching, as evidence by nearly 14 years experience teaching and leading children's ministries programs at two churches, and 9 years teaching in the Biology program at Grace College. Passion for seeing students grasp concepts in the biological sciences, both theoretical and practical. Desire to use the abilities and education the Lord has provided to further an appreciation for our Creator's handiwork among students.

Professional Experience

Associate Professor	Grace College, Winona Lake, IN	Fall 2010- Present
Adjunct Professor	Trinity International University, Deerfield, IL	Spring 2005
Adjunct Professor	University of California, Berkeley extension program	Fall 1995

The two prior college teaching opportunities, of both a lecture class (Berkeley extension) and a laboratory class (Trinity International University) served to enliven and interest in teaching at the undergraduate level. These opportunities augmented teaching experience gained during my doctoral studies at the University of California, San Diego, where service as teaching assistant was required one quarter per year of study, and have provided a valuable base for my faculty responsibilities at Grace College.

Pastor of Children's Ministries	Kenosha Bible Church, Kenosha, WI	July 2003- July 2010
Pastor of Children's Ministries	Trinity Church, Sunnyvale, CA	June 1996- July 2003

Created an integrated approach for the spiritual growth of children from birth through 6th grade, and supervised all aspects of children's evangelism, discipleship and service.

Education/Professional Recognition

Pastoral Ordination, Evangelical Free Church of America Forest Lakes District, EFCA	Sept. 2009
One Year Certification, Children's Ministries San Jose Christian College	June 2000
Post Doctorate, Molecular Biology Stanford University	June 1996

Ph. D, Molecular Biology University of California, San Diego	Aug. 1992
M.S., Microbiology Colorado State University	Aug. 1987
One Year Program, Bible Calvary Bible College (took full course load of upper division Bible and Theology classes for personal enrichment)	May 1985
B.S., Microbiology Colorado State University	May 1984

Professional Associations

- Member, Creation Research Society
- Member, National Association for Advisors of Health Professions
- Advisory Board Member, Northeast Indiana Area Health Education Center

Relevant Skills

- Effectively communicating concepts and principles in a classroom setting.
- Striving to see students grow in knowledge not just for the sake of knowledge, but for application in the world around them from the perspective of a Christ-centered worldview.
- Actively integrating variety and technology into student learning experiences.
- Working to develop scientific research for the purpose of providing undergraduates with in-depth laboratory experience.
- Seeking to work alongside colleagues for the benefit of the students, the department and the institution.

Publications

Roberts, R. C., 2023, Introducing the Scientific Granting Process: Instructing Students through Simulated Genetics Grant Writing and Peer Review. J. Micro. Biol. Edu. In Preparation.

Roberts, R. C. and Shapiro, L. 1997, Transcription of genes encoding DNA replication proteins is coincident with cell cycle control of DNA replication in *Caulobacter crescentus*. J. Bacteriol. 179:2319-2330.

Roberts, R. C., Mohr, C. D. and Shapiro, L., 1996, Developmental Programs in Bacteria, In Pedersen, R. A. and Schatten, G. P. eds. *Current Topics in Developmental Biology*, Vol. 34, Academic Press, San Diego, p. 207-257.

Roberts, R. C., Tootchinda, C., Avedissian, M., Baldini, R. L. Gomes, S. L., and Shapiro, L., 1996, Identification of *Caulobacter crescentus* operon encoding *hrcA*, involved in negatively regulating heat-inducible transcription, and the chaperone gene *grgE*, J. Bacteriol. 178:1829-1841.

Roberts, R. C. and Shapiro, L., 1995, Transcription of the essential, cell cycle-regulated *dnaN* gene of *Caulobacter crescentus* is heat shock inducible, J. Cell. Biochem, 5:115.

Sia, E. A., Roberts, R. C., Easter, C., Helinski, D. R. and Figurski, D. H., 1995, Different relative importances of the *par* operons and the effect of conjugal transfer on the maintenance of intact promiscuous plasmid RK2, J. Bacteriol. 177:2789-2797.

Roberts, R. C., Strom, A. R. and Helinski, D. R., 1994, The *parDe* operon of the broad-host-range plasmid RK2 specifies growth inhibition associated with plasmid loss, J. Mol. Biol. 237:35-51.

Roberts, R. C., Spangler, C. and Helinski, D. R., 1993, Characteristics and significance of DNA binding activity of plasmid stabilization protein ParD from the broad-host-range plasmid RK2, J. Biol. Chem. 268:27109-27117.

Helinski, D. R., Monson, E. K., Roberts, R.C., Weinstein, M., Lois, A. F., Agron, P.G. and Ditta, G. S., 1992, The mechanism of oxygen-sensing in *Rhizobium meliloti* and the development of plasmid vectors stably maintained in *Rhizobium in planta* and *ex planta*, in Villa, T. G. and Abide, J., eds., *Profiles in Biotechnology*. Servicio De Publicaciones, Universidade de Santiago de Compostela, p. 677-689.

Weinstein, M., Roberts, R. C., and Helinski, D. R., 1992, A region of the broad-host-range plasmid RK2 causes stable in planta inheritance of plasmids in *Rhizobium meliloti* cells isolated from alfalfa root nodules, J. Bacteriol. 174:7486-7489.

Roberts, R. C. and Helinski, D. R., 1992, Definition of a minimal plasmid stabilization system from the broad-host-range plasmid RK2, J. Bacteriol. 174:8118-8132.

Davis, T. L., Helinski, D. R., 1992, Transcription and autoregulation of the stabilizing functions of broad-host-range plasmid RK2 in *Escherichia coli*, *Agrobacterium tumefaciens* and *Pseudomonas aeruginosa*, Mol. Microbiol, 6:1981-1994.

Roberts, R. C., Burioni, R. and Helinski, D. R., 1990, Genetic characterization of the stabilizing functions of a region of broad-host-range plasmid RK2, J. Bacteriol. 172:6204-6216.

Roberts, R. C., and Ranu, R. S., 1987, Transfection of *Bdellovibrio bacteriovorus* with bacteriophage MAC-1 DNA, FEMS Microbiol. Letters 43:207-211.

Roberts, R. C., Keefer, M. A. and Ranu, R. S., 1987, Characterization of *Bdellovibrio bacteriovorus* bacteriophage MAC-1, J. Gen. Microbiol. 133:3065-3070.

Roberts, R. C., and Ranu, R. S., 1986, Regulation of protein synthesis in rabbit reticulocyte lysates: requirement of initiation factor eIF-2 holoprotein for substrate specificity of heme-regulated protein kinase, FEBS Letters 209:162-164.

Ranu, R. S., and Roberts, R. C., 1983, Regulation of protein synthesis in rabbit reticulocyte lysates: separation of heme regulated protein kinase into a high and a low molecular weight species, Biochem. Biophys. Res. Commun. 110:951-958.

Reviews and Presentations

Roberts, R. C., DeYoung, D. A. and Bosch, N. S. “Exploring Biblical Creation” Oral workshop presentation at the Momentum Youth Conference 7/19-7/21/23, Marion, IN

Roberts, R. C., “Full time faculty plus part time prehealth advisor: a roundtable discussing small college challenges” Oral session presentation at the Central Association of Advisors of Health Professions meeting, 4/21/23, Milwaukee, WI

DeYoung, D. A. Roberts, R. C., and Bosch, N. S. “Current Events in the Bible and Science” Oral workshop presentation at the Momentum Youth Conference 7/22-7/23/22, Marion, IN

DeYoung, D. A. Roberts, R. C., and Bosch, N. S. “Q and A Panel on Science Topics” Oral workshop presentation at the Momentum Youth Conference 7/19/19, Marion, IN

DeYoung, D. A. Bosch, N. S., and Roberts, R. C. “Q and A Panel on Science Topics” Oral workshop presentation at the Momentum Youth Conference 7/18/18, Marion, IN

Roberts, R. C. and Bosch, N. S., 2018, “Increasing Life Science Interest for Elementary Education Majors” Poster presentation at the Indiana National Academy of Science meeting, 3/24/2018, Indianapolis, IN

Borkowski, A. and Roberts, R. C., 2017, “Student Independent Study Projects using *Artemia salina*” Poster presentation at the Indiana National Academy of Science meeting, 3/25/2017, Indianapolis, IN

Roberts, R. C., 2016, Book review of “Cell Biology by the Numbers” Creation Research Society Quarterly 53:86.

Roberts, R. C., 2016, “Even Younger: Discussing Health Professions Pathways with Prospective Students,” Poster presentation at the National Association of Advisors of Health Professions meeting, 6/17/2016, Minneapolis, MN.

Roberts, R. C., 2016, Book review of “Genetic Entropy, 4th Edition” Creation Research Society Quarterly 51:217.

Roberts, R. C., 2015, “Health Professions Seminar: Bringing Professions to the Preprofessional,” Oral session presentation at the Central Association of Advisors of Health Professions meeting, 4/25/2015, Kansas City, MO.

Roberts, R. C., 2015, Book review of “Creation vs Evolution: What they Won’t Tell You in Biology Class” Creation Research Society Quarterly 51:217.

Roberts, R. C., 2013, Book review of “Faith, Reason & Earth History: A Paradigm of Earth and Biological Origins by Intelligent Design” Creation Research Society Quarterly 50:120-121.

Roberts, R. C., 2013, “Creation of a Health Science Major for Pre-Health Professionals: Pros and Cons,” Poster presentation at the Central Association of Advisors of Health Professions meeting, 4/19/2013, Detroit, MI.

Personal

Married to Lori Roberts (7/85), children include Rebecca (10/91), Nathan (4/95), and David (1/98).