

CARBOHYDRATE RESEARCH

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Publication information: *Carbohydrate Research* (ISSN 0008–6215). For 2003, volume 338 is scheduled for publication. Subscription prices are available upon request from the Publisher or from the Regional Sales Office nearest you or from this journal's website (<http://www.elsevier.com/locate/carres>). Further information is available on this journal and other Elsevier products through Elsevier's website: (<http://www.elsevier.com>). Subscriptions are accepted on a prepaid basis only and are entered on a calendar year basis. Issues are sent by standard mail (surface within Europe, air delivery outside Europe). Priority rates are available upon request. Claims for missing issues should be made within six months of the date of dispatch.

Microfilm and Back issues: Back issues of all previously published volumes, in both hard copy and on microfilm, are available direct from Elsevier offices.

USA mailing notice: *Carbohydrate Research* (ISSN 0008-6215) is published twice monthly by Elsevier Ltd. (P.O. Box 211, 1000 AE Amsterdam, The Netherlands). Annual subscription price in the USA US\$ 6,835 (valid in North, Central and South America), including air speed delivery. Periodical postage rate paid at Jamaica, NY 11431.

USA POSTMASTER: Send address changes to *Carbohydrate Research*, Publications Expediting Inc., 200 Meacham Avenue, Elmont, NY 11003.

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Cover illustration: α -carrageenan double helices are packed in a trigonal array and held together by calcium ions (red) at their peripheral sulfate groups; each helix appears as a triangle in the axial projection. The sulfur atoms in alternating saccharides are shown in green and yellow, their terminal oxygen atoms blue and the remaining violet. The unit cell accommodates three helices, cations and water molecules (not shown). These structural features [*Carbohydrate Research* 337 (2002) 523–535] underscore the junction zone architecture and polymer gelation behavior. The space-filling model is rendered by Professor Rengaswami Chandrasekaran and Dr. Srinivas Janaswamy, Whistler Center for Carbohydrate Research, Purdue University, West Lafayette, IN 47907, USA.