To update the background image:

• Go to 'View'
• Select 'Slide Master'
• Select the page with the image
• Right click on the image and select 'Change picture'
• Navigate to the location with the new image
• Select 'insert'

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Content links to direct sections of improved HTML

Abstract
The dynamics of macromolecular conformations are critical to the action of cellular networks. Solution X-ray scattering studies, in combination with macromolecular X-ray crystallography (SAXS) and nuclear magnetic resonance (NMR), strive to determine complete and accurate states of macromolecules, providing novel insights describing allosteric mechanisms, nanoscale complexes, and dynamic molecular machines. This review addresses theoretical and practical concepts, concerns, and considerations for using these techniques in conjunction with computational methods to productively combine solution scattering data with high-resolution structures. I discuss the principal means of direct identification of macromolecular flexibility from SAXS data followed by critical concerns about the methods used to calculate theoretical SAXS profiles from high-resolution structures. The SAXS profile is a direct integration of the thermodynamic ensemble and techniques such as, for example, minimal ensemble search (MES), enhance interpretation of SAXS experiments by describing the SAXS profiles as population-weighted thermodynamic ensembles. I discuss recent developments in computational techniques used for conformational sampling, and how these techniques provide a basis for assessing the level of the flexibility within a sample. Although these approaches sacrifice atomic detail, the knowledge gained from ensemble analysis is often appropriate for developing hypotheses and guiding biochemical experiments. Examples of the use of SAXS and combined approaches with X-ray crystallography, NMR, and computational methods to characterize dynamic assemblies are presented.

Keywords
Small-angle X-ray scattering (SAXS) Macromolecular flexibility Rigid-body modeling Ensemble analysis
Mobile optimization

Web responsive design allows for optimal viewing on all devices

Desktop

Phone - horizontal

Phone - vertical
Homepage

- 3 Parts: Search – Browse – Content
- Creating an account
- Library branding
- Search functionality
- Search results
- Browse by discipline (or industry sector on Springer for R&D)
- Browse by type of content
- Support and Feedback
Homepage

The homepage is divided into 3 parts:

1) Search functionality
2) Browse functionality
3) Content offered
Homepage

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Library branding

Institutional admin can place a branded message before the full text of all subscription journal articles, books and book chapters.
Search

1) Most users access our content through the search functionality. The search box is visible on every page

2) Advance search options & search help are available as well
Advanced search options

Further narrow your search by using the Advance Search options.
You can limit your search to only content accessible to your institution.
The browse functionality to the left is divided into disciplines.

If you click on the topic of your choice you will end up on the entry page for your discipline.

You can also browse by content type.

Below the discipline navigation you find a list of smallest content types:

- (Journal) Articles
- (Book) Chapters
- Conference Papers
- References Work Entries
- Protocols
To the right you see your search results listed.

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Search results page

1) If you only want to see only results you have access to uncheck the yellow box above the search filters.
Search results page

Structure of list items within a search result page

1) Type of content
2) Title of list item
3) Author of list item
4) Published in which product
5) Download (full-text) PDF or view HTML if available
Type of content

1) The following types of content may be listed in a search result:

Bigger Units:
- Series
- Book
- Journal
- Reference Work

Smallest Units:
- Chapter
- Protocol
- Article
- Reference Work Entry
Filter Options

To the left you will find pre-defined filter options that help you to optimize your search result.

The following filter options are available:

- Content type
- Discipline
- Sub-discipline
- Language
Search results page

Sort by option

By default search results are sorted by newest first. Further sorting options are:

- Newest First
- Oldest First

You may also choose to search within a specific date range
Search results page

Download List
Above the pagination you will see an arrow displayed that allows you to download the search result as a CSV file.

RSS Feed
You may subscribe to an RSS feed for your search results page by clicking the orange button.
Support & Feedback

To the left of the screen is an envelope button that opens into a Support & Feedback form.
Product Pages

• Product Pages - Blue Bar
• Open Access Indicators
• Journal
• Book
• Reference Work
• Series
• Protocols

2.0
Product Pages

Blue bar

On top of every product page there is a blue bar which will always be visible even if you scroll down.

The functionality offered in this bar differs from page type to page type.
Open Access Indicators will show on:

1) Search results page
2) Article / Chapter page
Journal Homepage

- Functionality overview
- Search within this journal content
- Search result page of a keyword search within a journal
- Volumes and issues navigation
- All volumes and issues result page
- About this journal
Journal Homepage

Functionality Overview
1) Browse Volumes & Issues
2) Search within this journal
3) Journal Title
4) Journal ISSN
5) Journal description
6) List of latest articles
7) Journal Cover
8) Journal metrics and content coverage
9) Alerts & More information
10) Volumes & Issues Navigation
11) Sharing options
Journal Homepage – Search within this journal

Search within this journal content

To find relevant journal articles you may enter a search term to start a search within the content of a journal.

The results will be displayed in a search result list. You leave the environment of the journal product page.
Typical text slide and bullets

Search result page of a keyword search within a journal

On top of the search result list you get the search term listed and the journal name.
Journal Homepage

Volumes & Issues Navigation

1) On the journal homepage you can press the All Volumes and Issues link within the blue bar on top of the page.

2) You can also use the blue Browse Volumes & Issues button for the same overview.

3) To the right of the Latest Articles you find a gray box that allows you to navigate specific volumes and issues.
Typical text slide and bullets

All Volumes and Issues

1) You see links to the most recent content displayed on top of the page.

2) The content of older volumes is hidden behind the grey volume bars. If you click on the gray volume bar, the content of this volume is shown.

3) Clicking on the tab for Online First will allow you to search for latest articles which are not yet assigned to an issue.
Journal Homepage

### About this Journal

On the bottom of the journal homepage you find detailed information about the journal, including:

1. The bibliographic information
2. Additional Links, to Register for Journal Updates, Editorial Board Manuscript Submission and About this Journal
3. Topics links to related search results
4. Industry Sectors links to related search results
5. Journal History with details of previous titles
Journal Article

• Functionality Overview
• Title and author information
• Navigation, HTML links, download and export
• Related content
• Supplementary Material
• About this Article
Journal Article

(2) QTL for root angle and number in a population developed from bread wheats (Triticum aestivum) with contrasting adaptation to water-limited environments

Abstract

Root architecture traits in wheat are important in deep soil moisture acquisition and may be used to improve adaptation to water-limited environments. The genetic architecture of two root

Functionality Overview

1) Journal Cover
2) Journal Title
3) Article Title
4) Author information
5) Year of Publication
6) ISSN information
7) Download PDF
8) Export citation
9) Share article
10) HTLM links
11) Citations
Title, Journal & Author information

Title, journal and author information is prominently listed at the top of each article.
Journal Article

QTL for root angle and number in a population developed from bread wheats (*Triticum aestivum*) with contrasting adaptation to water-limited environments

Authors

Jack Christopher, Nandy Christopher, Danielle Jennings, Shirley Jones, Susan Mackett, Andrew Barlow, Ahmad M. Manshadi, David Jordan, Emma Race, Guenee Hammer

Abstract

Root architecture traits in wheat are important in deep soil moisture acquisition and may be used to improve adaptation to water-limited environments. The genetic architecture of two root

Navigation and HTML links

1) In the right hand navigation you can Download PDF, Export citations and Share the article

2) Following this are links to content in the HTML, such as article Abstract, any Supplementary material and References (as available)

3) Below the main article information you will find different article metrics
Journal Article

QTL for root angle and number in a population developed from bread wheats (Triticum aestivum) with contrasting adaptation to water-limited environments

Abstract

Root architecture traits in wheat are important in deep soil moisture acquisition and may be used to improve adaptation to water-limited environments. The genetic architecture of two root
Journal Article

References
A list of literature the author used to write the article.

Most of the references are linked to their source by the CrossRef link.
Typical text slide and bullets

About this article

1) Link to Check for updates
2) Link to more details About this journal
3) Link to Reprints and Permissions information
4) Personalised recommendations

1. Quantitative structure analysis of genetic diversity among spring bread wheats (Triticum aestivum L.) from different geographical regions
   Hai, Lin... Friedt, Wolfgang
   *Genetica* (2007)

2. Genetic diversity of local spring bread wheats (Triticum aestivum L.) of West and East Siberia in gliadin genes
   Nikolaev, A. A.... Upelnik, V. P.

   Castagna, R.... Rocchetti, G.
Admin Dashboard

• Access
• Organization entitlements
• COUNTER Reports usage
• Member List
• Settings
Admin Dashboard

Overview

1) Log in with your Admin credentials

2) Access the Admin Dashboard via link under the search box
Admin Dashboard

1) Tabs to Admin services
2) Twitter feed of Admin news - follow @SpringerDash
3) Link to the Help Desk
4) Link to Library Resources
5) Product Links
6) Sales & Subscription Links
Admin Dashboard

My Organization tab

1) View the valid IP ranges

2) Add or update your organization’s logo

3) Manage your users or associate a new user by adding the emails here. You can also set a date for the association to expire if you wish. An association code will be sent to each.
Admin Dashboard

Usage tab

1) Download various COUNTER Reports
2) View deposit contract balances if applicable (Corporate customers)
Admin Dashboard

Title Lists tab

1) Review the content holdings for your organization or consortium.
2) Book and Journal Lists of the organization you have selected in the dropdown box above.

My SpringerLink content holdings

Helping you control access to, and understand usage of Springer content
Admin Dashboard

Settings tab

Options are explained in more detail as you move the mouse over, including display of Institutional name and Library Branding.
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