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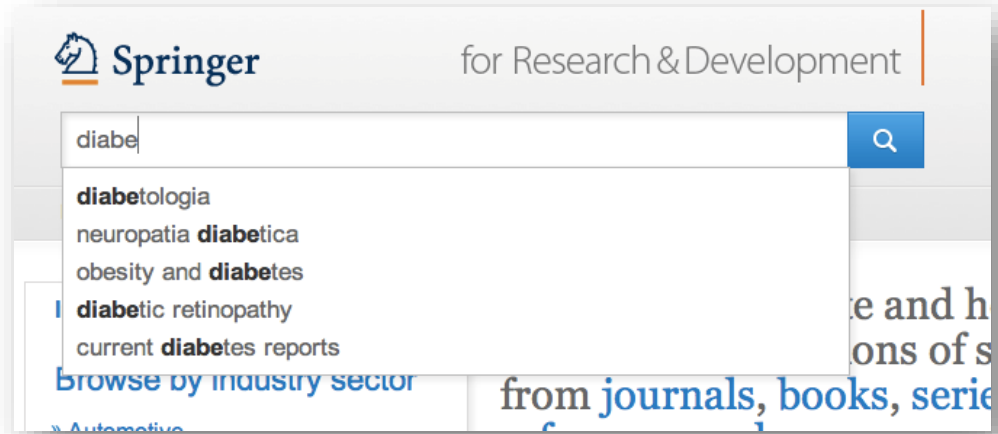
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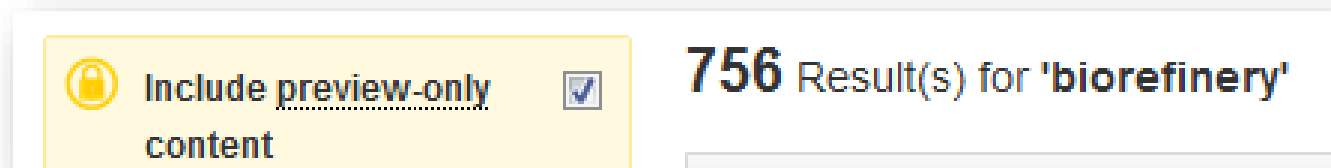
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Results

Patient characteristics

Between 11/04/2003 and 12/13/2004, seven patients were seen in this initial cohort. Table 1 summarizes the patient characteristics.

Table 1 Baseline demographics and clinical characteristics

Baseline characteristics
Patients evaluable/enrolled
Gender: Female %

改进后的 HTML

European Biophysics Journal
with Biophysics Letters

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10.1007/s00249-012-0820-x

Review

Validation of macro

Michal Hammel¹ ✉

(1) Lawrence Berkeley National Laboratory,

✉ Michal Hammel
Email: mhammel@lbl.gov

Received: 4 March 2012 Revised: 22 April 2012

Abstract

The dynamics of macromolecular conformations are critical to the action of cellular processes. In this review, we combine solution-scattering data with high-resolution structural data to calculate theoretical SAXS profiles. We use minimal ensemble search (MES), enhance computational techniques used for conformational detail, the knowledge gained from ensemble X-ray crystallography, NMR, and computational methods.

Keywords Small-angle X-ray scattering (SAXS)

Special Issue: Scattering techniques in biological systems

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10.1007/s00249-012-0820-x

Review

Validation of macromolecular flexibility in solution by small-angle X-ray scattering (SAXS)

Michal Hammel¹ ✉

(1) Lawrence Berkeley National Laboratory, Physical Biosciences Division, Berkeley, CA, USA

✉ Michal Hammel
Email: mhammel@lbl.gov

Received: 4 March 2012

Revised: 22 April 2012

Accepted: 5 May 2012

Published online: 26 May 2012

Abstract

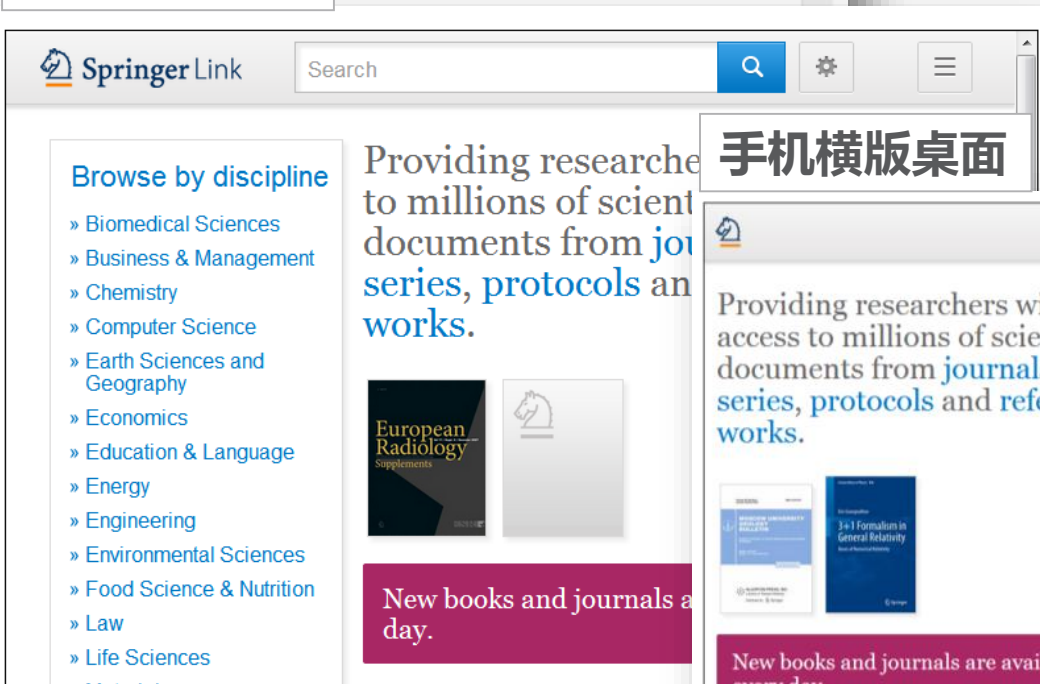
The dynamics of macromolecular conformations are critical to the action of cellular processes. In this review, we combine solution-scattering data with high-resolution structural data to calculate theoretical SAXS profiles. We use minimal ensemble search (MES), enhance computational techniques used for conformational detail, the knowledge gained from ensemble X-ray crystallography, NMR, and computational methods. This review addresses theoretical and practical concepts, concerns, and considerations in conjunction with computational methods to productively combine solution and high-resolution structures. I discuss the principal means of direct identification of conformations from SAXS data followed by critical concerns about the methods used to calculate from high-resolution structures. The SAXS profile is a direct interrogation of the conformational ensemble and techniques such as, for example, minimal ensemble search (MES), enhance computational techniques used for conformational detail, the knowledge gained from ensemble X-ray crystallography, NMR, and computational methods. This review addresses theoretical and practical concepts, concerns, and considerations in conjunction with computational methods to productively combine solution and high-resolution structures. I discuss the principal means of direct identification of conformations from SAXS data followed by critical concerns about the methods used to calculate from high-resolution structures. The SAXS profile is a direct interrogation of the conformational ensemble and techniques such as, for example, minimal ensemble search (MES), enhance computational techniques used for conformational detail, the knowledge gained from ensemble X-ray crystallography, NMR, and computational methods. This review addresses theoretical and practical concepts, concerns, and considerations in conjunction with computational methods to productively combine solution and high-resolution structures. I discuss the principal means of direct identification of conformations from SAXS data followed by critical concerns about the methods used to calculate from high-resolution structures. The SAXS profile is a direct interrogation of the conformational ensemble and techniques such as, for example, minimal ensemble search (MES), enhance computational techniques used for conformational detail, the knowledge gained from ensemble X-ray crystallography, NMR, and computational methods.

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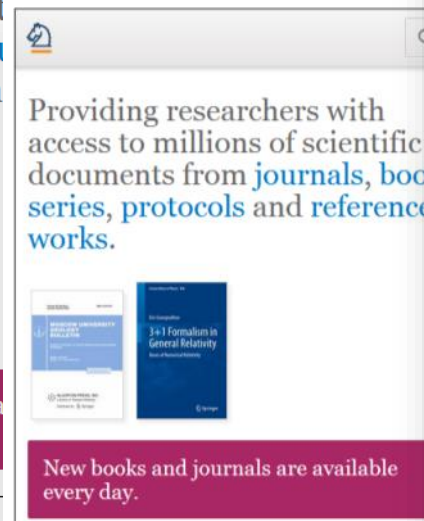
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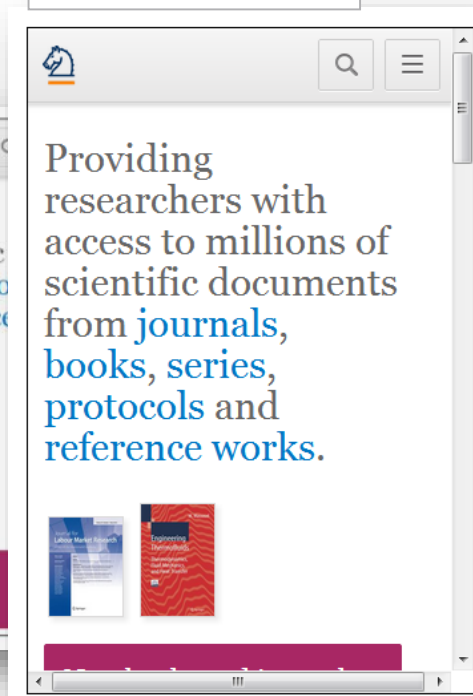
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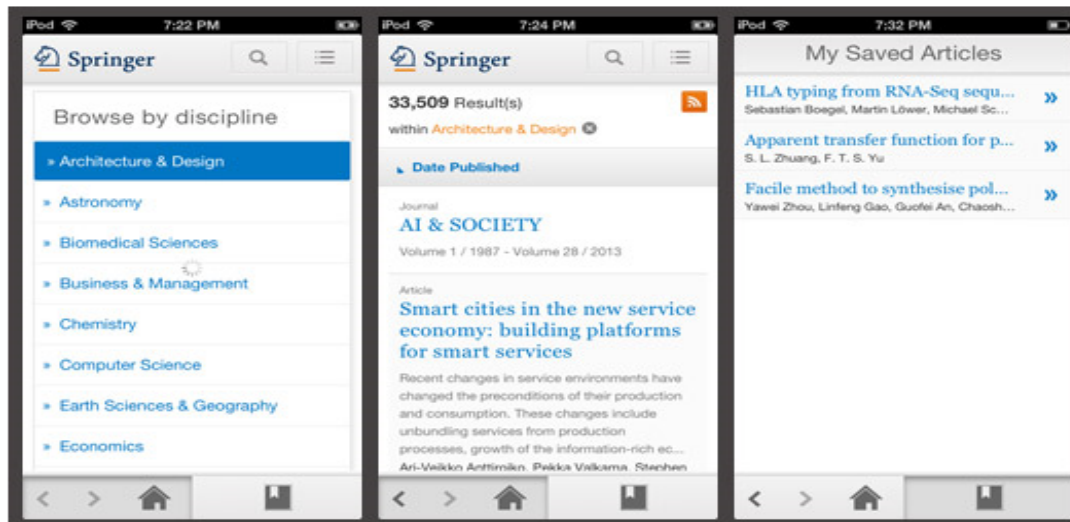
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Date Published Page 1 of 12,692

Comprendre le score gériatrique: recommandations de la « Task Force on CGA of the International Society of Geriatric Oncology (SIOG) »

Un quart des Européens aura plus de 65 ans d'ici 2030, et dans ce segment l'incidence des cancers augmente à 11 fois celle du sujet plus jeune. Pour mieux évaluer ces personnes sur le plan social et médical,...

M. Anne in Cancer du sein (2007)

3.349 Result(s) for 'mrsa'

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Show documents published between 1867 and 2012 (Available 1867 - 2012) (highlighted in red box)

pediatric cardiology New Search

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Chapter	969
Reference Work Entry	30

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612 Result(s) for 'biorefinery technologies and products'

Sort By: Relevance | Date Published

Page 1 of 31

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Content Type

Article	405
Chapter	200
Reference Work Entry	4
Protocol	3

Discipline

Chemistry	272
Life Sciences	248
Engineering	150
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Energy	70

Subdiscipline

Biotechnology	222
Biochemistry	126
Biochemistry & Biophysics	126
Energy Technology	108
Microbiology	98

Published In

Applied Biochemistry and Biotechnology	65
Biomass Conversion and Biorefinery	54
Applied Microbiology and Biotechnology	51
BioEnergy Research	25
Journal of Industrial Microbiology & Biotechnology	24

Article

Biorefinery: an Efficient Way to Sustainable Development of Chemical Industry—a Special Issue for International Conference on Biorefinery (ICB 07) and the 5th International Conference on Separation Science and Technology (ICSST2007)

Tianwei Tan, Jian-He Xu in *Applied Biochemistry and Biotechnology* (2010)

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Integrated Forest Biorefinery

Biorefining is an exciting concept for the pulp and paper industry, however in many ways, the industry has been considering its implementation for decades (Wising and Stuart 2006...). There have been many example...

Pratima Bajpai in *Biotechnology for Pulp and Paper Processing* (2012)

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This issue of **BioEnergy Research**...is the second of three special issues to feature work from the US Department of Energy **Bioenergy** Centers. This special issue is focused on **research** supported by the Great Lakes (3)

Michael D. Casler in *BioEnergy Research* (2010) (5)

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Article

The DOE BioEnergy Science Center—a U.S. Department of Energy Bioenergy Research Center

The **BioEnergy** Science Center, a nationally and internationally peer ... as a U.S. Department of Energy **Bioenergy Research** Center. This Oak Ridge National Laboratory-led ... for its significant contributions in th... Russ Miller, Martin Keller in *In Vitro Cellular & Developmental Biology - Plant* (2009)

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Article

The US Department of Energy Great Lakes Bioenergy Research Center: Midwestern Biomass as a Resource for Renewable Fuels

The Great Lakes **Bioenergy Research** Center is one of three **Bioenergy Research** Centers establish by the US Department of ... of liquid fuels derived from biomass. The **research** is focused on converting plant biomass...

Steven Slater, Kenneth Keegstra, Timothy J. Donohue in *BioEnergy Research* (2010)

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