

Saskia Bucciarelli
Postdoc
Biostructural Research
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Qualifications

Physical Chemistry, PhD, Lund University
Physics, MSc, University of Fribourg
Physics/Mathematics, BSc, University of Fribourg

Employment

Postdoc

Biostructural Research
København Ø, Denmark
15 May 2016 → 14 May 2019

Postdoc

Biostructural Research
København Ø, Denmark
15 May 2016 → 14 May 2019

PhD student

Lund University, Department of Chemistry, Division of Physical Chemistry
Lund, Sweden
1 Jul 2011 → 13 Dec 2015

Publications

Size-exclusion chromatography small-angle X-ray scattering of water soluble proteins on a laboratory instrument

Bucciarelli, S., Midtgaard, S. R., Pedersen, M. N., Skou, S., Arleth, L. & Vestergaard, B., 2018, In : Journal of Applied Crystallography. 51

Dramatic influence of patchy attractions on short-time protein diffusion under crowded conditions

Bucciarelli, S., Myung, J. S., Farago, B., Das, S., Vliegthart, G. A., Holderer, O., Winkler, R. G., Schurtenberger, P., Gompper, G. & Stradner, A., 7 Dec 2016, In : Science Advances. 2, 8 p., e1601432.

High-mobility group protein B1 (HMGB1) binds to the rs7903146 locus in the T-cell factor 7-like 2 (TCF7L2) gene in human pancreatic islets

Zhou, Y., Oskolkov, N., Shcherbina, L., Ratti, J., Kock, K-H., Su, J., Martin, B., Zackrisson Oskolkova, M., Göransson, O., Bacon, J., Li, W., Bucciarelli, S., Cilio, C., Brazma, A., Thatcher, B., Rung, J., Wierup, N., Renström, E., Groop, L. & Hansson, O., 15 Jul 2016, In : Molecular and Cellular Endocrinology. 430, p. 138-145

Extended law of corresponding states applied to buffer isotope effect on a globular protein

Bucciarelli, S., Mahmoudi, N., Casal-Dujat, L., Jéhannin, M., Jud, C. & Stradner, A., 14 Apr 2016, In : Journal of Physical Chemistry Letters. 7, p. 1610-1615

How scattering helps to gain a better understanding of presbyopia

Bucciarelli, S., Casal-Dujat, L., Farago, B., Schurtenberger, P. & Stradner, A., 2016.

Unusual Dynamics of Concentration Fluctuations in Solutions of Weakly Attractive Globular Proteins

Bucciarelli, S., Casal-Dujat, L., De Michele, C., Sciortino, F., Dhont, J., Bergenholtz, J., Farago, B., Schurtenberger, P. & Stradner, A., 27 Oct 2015, In : Journal of Physical Chemistry Letters. 6, p. 4470-4474

Dynamical arrest in concentrated eye lens protein solutions and its effect on vision

Bucciarelli, S., Casal-Dujat, L., Farago, B., Schurtenberger, P. & Stradner, A., 2015.

Hard sphere-like glass transition in eye lens α -crystallin solutions

Foffi, G., Savin, G., Bucciarelli, S., Dorsaz, N., Thurston, G. M., Stradner, A. & Schurtenberger, P., 25 Nov 2014, In : Proceedings of the National Academy of Sciences USA (PNAS). p. 16748-16753

Cluster-Driven Dynamical Arrest in Concentrated Lysozyme Solutions

Cardinaux, F., Zaccarelli, E., Stradner, A., Bucciarelli, S., Farago, B., Egelhaaf, S. U., Sciortino, F. & Schurtenberger, P., 29 Apr 2011, In : The Journal of Physical Chemistry Part B. 115, p. 7227-7237

Activities

How do attractions and crowding affect protein solution dynamics?

Saskia Bucciarelli (Speaker)

26 May 2016

How X-rays, light and neutrons help to understand presbyopia

Saskia Bucciarelli (Speaker)

8 Sep 2015

Presbyopia - caused by dynamical arrest of the concentrated protein mixture in the eye lens cells?

Saskia Bucciarelli (Speaker)

15 May 2014

Neutron spin echo experiments reveal different arrest scenarios in concentrated eye lens protein solutions

Saskia Bucciarelli (Speaker)

23 Apr 2014

2nd Research on Vertebrate Vision in Lund

Saskia Bucciarelli (Organizer)

2014 → ...

Disentangling critical slowing down and dynamical arrest in lens protein solutions

Saskia Bucciarelli (Speaker)

8 Sep 2012

Competition between critical phenomena and dynamical arrest in concentrated eye lens protein solutions

Saskia Bucciarelli (Speaker)

29 May 2012