

Bente Vestergaard  
Lektor  
Biostructural Research  
Postadresse:  
Jagtvej 162  
30.3.108  
2100  
Copenhagen  
Danmark  
E-mail: [bente.vestergaard@sund.ku.dk](mailto:bente.vestergaard@sund.ku.dk)  
Telefon: +45 35 33 64 03  
Hjemmeside: <http://www.farma.ku.dk/index.php?id=2712>,  
<http://www.brainstruc.ku.dk>  
Web: <http://www.farma.ku.dk/index.php?id=2712>



## Kort præsentation

I am the group leader of the BioSAXS group, dept. Drug Design and Pharmacology, University of Copenhagen, and the director of the Lundbeck Foundation Initiative on Integrative Structural Biology, BRAINSTRUC (<http://www.brainstruc.ku.dk>). I have focused on structural biology throughout my career. I was trained in macromolecular X-ray crystallography and have experience with cryo electron microscopy, atomic force microscopy and X-ray fiber diffraction. Since 2004 I have specialized in small angle X-ray scattering on proteins in solution and have established the first Scandinavian bioSAXS group at the University of Copenhagen. In my group, we focus on structural characterisation of complex pharmaceutically relevant protein solutions. We analyze heterogeneous protein systems, and particularly specialize in characterisation of fibrillating proteins. We have developed novel methods for structural analysis of fibrillating systems, applying advanced decomposition and multidisciplinary characterisation.

## Ansættelse

### Professor Emerita

Biologiske lægemidler  
Københavns Universitet  
København Ø  
31 jul. 2022 → nu

### Professor emerita

Biologiske lægemidler  
Københavns Universitet  
København Ø  
1 aug. 2022 → nu

### Lektor

LUKKET: Biostructural Research  
Københavns Universitet  
København Ø, Danmark  
1 jan. 2006 → 3 jan. 2020

## Honours

2010 – 2015 Sapere Aude Starting Grant from the Danish Council for Independent research

## National or International Opponent of PhD Theses

2007-Primary/main/faculty opponent or administrative chair of 21 theses in Denmark, Sweden, Norway and India

## Management

2006-	Independent group leader, BioSAXS group, UCPH
2006-2010	Founder and steering group member of BioXTAS, later associated workgroup of the EU design programme SAXIER ( <a href="http://www.saxier.org">www.saxier.org</a> )
2009-2010	Research Management Course (CBS/Søren Barlebo; 3x2d course)

2011-2012      Research Management Master Classes (2x1d)  
2017-            Director of the Lundbeck Foundation Initiative BRAINSTRUC

## International Schools

Invited lecturer: EMBO BIOSAS (Hamburg) 2008/10/12/14; EMBO BIOSAS (Grenoble) 2011/13/15, EMBO/FEBS Global Exchange Lecture Courses: Hyderabad, 2012; Taipei, 2015; Seoul, 2016

Co-organizer: Microfluidics for X-ray Nanoanalytics 2008 (Graz) and 2010 (Copenhagen); Nordforsk: Macromolecular Interactions, Riccione, 2009; SAXS@MAX-IV, Lund, 2013; Neutrons and Life Sciences, Lund, 2013; IUCr SAXS Microsymposium, Montreal, 2014; SAXS Microsymposium, ECM30, Basel, 2016

Main organizer: The CPH-BioSAS courses: organized with Prof. Lise Arleth 2005/07/10/13, housing 25-30 international course participants at PhD- and post-doc levels, with lecturers from e.g. ESRF & ILL, Grenoble; EMBL, Hamburg (Svergun group) and MAXlab, Lund

## Selected Commissions of Trust & Memberships

2008 Evaluation of synchrotron beamline ID13, ESRF, Grenoble

2009- 2016 Priorities Committee, European Molecular Biology Laboratories, Hamburg, Germany

2009 Scientific Secretary, interfaculty synergy options for natural sciences at UCPH (a.k.a. the FLN-report)

2010-2011 Scientific Secretary, interfaculty synergy options for Chemistry at UCPH

2010-2014 Evaluator for National Fund for Scientific Research (FWO), Belgium

2012 Evaluation panel member for EMBL staff scientist, P12 beamline, Hamburg

2013- 2016 Swedish Research Council evaluation panel NT-9, vice chair 2015-2016

2013-2014 Advisory Committee for the CoSAXS beamline at the Max-IV Synchrotron

2017 Finnish Research Council evaluation panel BIO1

## Publikationer

### Identifying Biological and Biophysical Features of Different Maturation States of $\alpha$ -Synuclein Amyloid Fibrils

Skamris, T., Vestergaard, Bente, Madsen, Kenneth Lindegaard, Langkilde, Annette Eva & Foderà, Vito, 2023, I: *Methods in molecular biology* (Clifton, N.J.). 2551, s. 321-344 24 s.

### Intrinsically Disordered Proteins as an Instrument for Research-Integrating Teaching

Skriver, K., Sjørup, S. A., Langkilde, A. E., Balouka, E., Christensen, C. S., Carbel, K., Decker, J. N. V., Essenbæk, D. N., Gräf, J. F., Jessen, C. H., Kristensen, P., Merrild, C., Mortensen, T. S., Nalepa, I. F., Nordsteen, B. W., Svoren, S. K., van Hall, M., Weicher, J., Wind, M. L., Zhang, D. & 8 flere, Saar, Daniel, Blæsild, H., Stahlhut, M., Andersen, K. V., Dagil, Robert, Vestergaard, Bente, Ryberg, Marie L. & Kragelund, Birthe Brandt, 2023, I: *The Biophysicist*. 4 , 2, s. 1-7 7 s.

### Protein fibrillation from another small angle—SAXS data analysis of developing systems

Langkilde, Annette Eva & Vestergaard, Bente, 2023, *Methods in Enzymology*. Elsevier, Bind 678. s. 377-409

### Protein fibrillation from another small angle: Sample preparation and SAXS data collection

Vestergaard, Bente & Langkilde, Annette Eva, 2022, *Methods in Enzymology*. Academic Press, Bind 677. s. 291-321 (Methods in Enzymology).

### Structure and thermodynamics of transient protein-protein complexes by chemometric decomposition of SAXS datasets

Sagar, A., Herranz-Trillo, F., Langkilde, Annette Eva, Vestergaard, Bente & Bernadó, P., 2021, I: *Structure*. 29, 9, s. 1074-1090

### Size-Selective Phagocytic Clearance of Fibrillar $\alpha$ -Synuclein through Conformational Activation of Complement Receptor 4

Juul-madsen, K., Qvist, P., Bendtsen, K. L., Langkilde, Annette Eva, Vestergaard, Bente, Howard, K. A., Dehesa-etxebeste, M., Paludan, S. R., Andersen, G. R., Jensen, P. H., Otzen, D. E., Romero-ramos, M. & Vorup-jensen, T., 22 jan. 2020, I: *The Journal of Immunology*. 204, 5, s. 1345-1361

#### **Avidity within the N-terminal anchor drives $\alpha$ -synuclein membrane interaction and insertion**

Cholak, E., Bugge, K., Khondker, A., Gauger, K., Pedraz-Cuesta, E., Pedersen, M. E., Bucciarelli, S., Vestergaard, Bente, Pedersen, Stine Helene Falsig, Rheinstädter, M. C., Langkilde, Annette Eva & Kragelund, Birthe Brandt, 2020, I: FASEB journal : official publication of the Federation of American Societies for Experimental Biology. 34, 6, s. 7462-7482 21 s.

#### **Disentangling the role of solvent polarity and protein solvation in folding and self-assembly of $\alpha$ -lactalbumin**

Bucciarelli, S., Sayedi, E. S., Osella, S., Trzaskowski, B., Vissing, K. J., Vestergaard, Bente & Foderà, Vito, 2020, I: Journal of Colloid and Interface Science. 561, s. 749-761 13 s.

#### **The Non-Fibrillating N-Terminal of $\alpha$ -Synuclein Binds and Co-Fibrillates with Heparin**

Skaanning, L. K., Santoro, A., Skamris, T., Martinsen, J. H., D'Ursi, A. M., Bucciarelli, S., Vestergaard, Bente, Bugge, K., Langkilde, Annette Eva & Kragelund, Birthe Brandt, 2020, I: Biomolecules. 10, 8, 23 s., 1192.

#### **Distinct $\alpha$ -Synuclein:Lipid Co-Structure Complexes Affect Amyloid Nucleation through Fibril Mimetic Behavior**

Cholak, E., Bucciarelli, S., Bugge, K., Johansen, Nicolai Tidemand, Vestergaard, Bente, Arleth, Lise, Kragelund, Birthe Brandt & Langkilde, Annette Eva, nov. 2019, I: Biochemistry. 58, 50, s. 5052-5065

#### **Early Stage Alpha-Synuclein Amyloid Fibrils are Reservoirs of Membrane-Binding Species**

Skamris, T., Marasini, C., Madsen, Kenneth Lindegaard, Foderà, Vito & Vestergaard, Bente, 2019, I: Scientific Reports. 9, s. 1-11 11 s., 1733.

#### **SEC-SAXS on an in-house laboratory instrument**

Skou, S., Bucciarelli, S., Midtgaard, S. R., Pedersen, M. N., Arleth, Lise & Vestergaard, Bente, 2019, s. A230-A230. 1 s.

#### **Noninvasive Structural Analysis of Intermediate Species During Fibrillation: An Application of Small-Angle X-Ray Scattering**

Langkilde, Annette Eva, Herranz-Trillo, F., Bernadó, P. & Vestergaard, Bente, 8 jun. 2018, *Amyloid Proteins: methods and protocols*. Sigurdsson, E., Calero, M. & Gasset, M. (red.). Humana Press, Bind 1779. s. 209-239 31 s. (Methods in Molecular Biology).

#### **Ethanol Controls the Self-Assembly and Mesoscopic Properties of Human Insulin Amyloid Spherulites**

Vetri, V., Piccirilli, F., Krausser, J., Buscarino, G., Łapińska, U., Vestergaard, Bente, Zaccone, A. & Foderà, Vito, 29 mar. 2018, I: The Journal of Physical Chemistry B. 122, 12, s. 3101-3112

#### **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, Lise & Vestergaard, Bente, 2018, I: Journal of Applied Crystallography. 51, 6, s. 1623-1632 11 s.

#### **Structural Analysis of Multi-component Amyloid Systems by Chemometric SAXS Data Decomposition**

Trillo, I. F. H., Jensen, M. G., van Maarschalkerweerd, A., Tauler, R., Vestergaard, Bente & Bernadó, P., 3 jan. 2017, I: Structure. 25, 1, s. 5-15 11 s.

#### **SAS-Based Studies of Protein Fibrillation**

Marasini, C. & Vestergaard, Bente, 2017, *Biological Small Angle Scattering: Techniques, Strategies and Tips*. Springer Science+Business Media, Bind 1009. s. 149-165 17 s. (Advances in Experimental Medicine and Biology).

#### **Sucrose modulates insulin amyloid-like fibril formation: effect on the aggregation mechanism and fibril morphology**

Marasini, C., Foderà, Vito & Vestergaard, Bente, 2017, I: RSC Advances. 7, s. 10487-10493

#### **Trifluoroethanol modulates $\alpha$ -synuclein amyloid-like aggregate formation, stability and dissolution**

Di Carlo, M. G., Vetri, V., Buscarino, G., Leone, M., Vestergaard, Bente & Foderà, Vito, sep. 2016, I: Biophysical Chemistry. 216, s. 23-30 8 s.

**Analysis of biostructural changes, dynamics, and interactions - Small-angle X-ray scattering to the rescue**  
Vestergaard, Bente, 15 jul. 2016, I: Archives of Biochemistry and Biophysics. 602, s. 69-79 11 s.

**Mechanistic study of the inhibitory activity of Geum urbanum extract against  $\alpha$ -Synuclein fibrillation**

Lobbens, E. S., Breydo, L., Pedersen, T. S., Vestergaard, Bente, Jäger, A. K., Jørgensen, Lene, Uversky, V. & van de Weert, Marco, 21 jun. 2016, I: BBA - Proteins and Proteomics. 1864, 9, s. 1160-1169 10 s.

**Monoclonal Antibodies Follow Distinct Aggregation Pathways During Production-Relevant Acidic Incubation and Neutralization**

Pedersen, T. S., Tian, X., Thorolfsson, M., Karkov, H. S., Rasmussen, H. B., Langkilde, Annette Eva & Vestergaard, Bente, mar. 2016, I: Pharmaceutical Research. 33, 3, s. 716-28 13 s.

**Protein-protein interactions: a supra-structural phenomenon demanding trans-disciplinary biophysical approaches**

Byron, O. & Vestergaard, Bente, dec. 2015, I: Current Opinion in Structural Biology. 35, s. 76-86 11 s.

**Formation of covalent di-tyrosine dimers in recombinant  $\alpha$ -synuclein**

van Maarschalkerweerd, A., Pedersen, M., Peterson, H., Nilsson, M., Nguyen, T., Skamris, T., Rand, Kasper Dyrberg, Vetri, V., Langkilde, Annette Eva & Vestergaard, Bente, 19 okt. 2015, I: Intrinsically Disordered Proteins. 3, 1, s. 1-12 12 s.

**Cholesterol facilitates interactions between  $\alpha$ -synuclein oligomers and charge-neutral membranes**

van Maarschalkerweerd, A., Vetri, V. & Vestergaard, Bente, 14 sep. 2015, I: FEBS Letters. 589, 19 Pt B, s. 2661-7 7 s.

**Structure of dimeric and tetrameric complexes of the BAR domain protein PICK1 determined by small-angle X-Ray scattering**

Karlsen, M. L., Thorsen, T. S., Johner, N., Ammendrup-Johnsen, I., qrc243, qrc243, Tian, X., Simonsen, J. B., Hoiberg-Nielsen, R., Christensen, N. M., Khelashvili, G., Streicher, W., Teilum, Kaare, Vestergaard, Bente, Weinstein, H., Gether, Ulrik, Arleth, Lise & Madsen, Kenneth Lindegaard, 7 jul. 2015, I: Structure. 23, 7, s. 1258-1270 13 s.

**The architecture of amyloid-like peptide fibrils revealed by X-ray scattering, diffraction and electron microscopy**

Langkilde, Annette Eva, Morris, K. L., Serpell, L. C., Svergun, D. I. & Vestergaard, Bente, apr. 2015, I: Acta crystallographica. Section D, Biological crystallography. 71, Pt 4, s. 882-95 14 s.

**In-depth analysis of subclass-specific conformational preferences of IgG antibodies**

Tian, X., Vestergaard, Bente, Thorolfsson, M., Yang, Z., Rasmussen, H. B. & Langkilde, Annette Eva, 1 jan. 2015, I: IUCrJ. 2, 1, s. 9-18 10 s.

**Considerably Unfolded Transthyretin Monomers Precede and Exchange with Dynamically Structured Amyloid Protofibrils**

Groenning, M., Campos, R. I., Hirschberg, D., Hammarström, P. & Vestergaard, Bente, 2015, I: Scientific Reports. 5, s. 1-18 18 s., 11443.

**Direct Correlation Between Ligand-Induced  $\alpha$ -Synuclein Oligomers and Amyloid-like Fibril Growth**

Pedersen, M. N., Foderà, Vito, Horvath, I., van Maarschalkerweerd, A., Nørgaard Toft, K., Weise, C., Almqvist, F., Wolf-Watz, M., Wittung-Stafshede, P. & Vestergaard, Bente, 2015, I: Scientific Reports. 5, s. 1-12 12 s., 10422.

**Protein/lipid coaggregates are formed during  $\alpha$ -synuclein-induced disruption of lipid bilayers**

van Maarschalkerweerd, A., Vetri, V., Langkilde, Annette Eva, Foderà, Vito & Vestergaard, Bente, 13 okt. 2014, I: Biomacromolecules. 15, 10, s. 3643-54 12 s.

**Observation of the Early Structural Changes Leading to the Formation of Protein Superstructures**

Foderà, Vito, Vetri, V., Wind, T. S., Noppe, W., Cornett, Claus, Donald, A. M., Morozova-Roche, L. A. & Vestergaard, Bente, 18 sep. 2014, I: Journal of Physical Chemistry Letters. 5, 18, s. 3254-3258 5 s.

**Small-Angle X-ray Scattering Screening Complements Conventional Biophysical Analysis: Comparative Structural and Biophysical Analysis of Monoclonal Antibodies IgG1, IgG2, and IgG4**

Tian, X., Langkilde, Annette Eva, Thorolfsson, M., Rasmussen, H. B. & Vestergaard, Bente, jun. 2014, I: Journal of Pharmaceutical Sciences. 103, 6, s. 1701-10 10 s.

**In situ microfluidic dialysis for biological small-angle X-ray scattering.**

Vestergaard, Bente & Skou, M., 2014, I: Journal of Applied Crystallography. 47, s. 1355-1366 11 s.

**Small Angle X-Ray Scattering Studies of Mitochondrial Glutaminase C Reveal Extended Flexible Regions, and Link Oligomeric State with Enzyme Activity**

Møller, M., Nielsen, S. S., Ramachandran, S., Li, Y., Tria, G., Streicher, W., Petoukhov, M. V., Cerione, R. A., Gillilan, R. E. & Vestergaard, Bente, 30 sep. 2013, I: P L o S One. 8, 9, e74783.

**Small angle X-ray scattering-based elucidation of the self-association mechanism of human insulin analogue lys(B29)(N(e)-carboxyheptadecanoyl) des(B30)**

Jensen, M. H., Wahlund, P., Toft, K. N., Jacobsen, J. K., Steensgaard, D. B., van de Weert, Marco, Havelund, S. & Vestergaard, Bente, 15 jan. 2013, I: Biochemistry. 52, 2, s. 282-94 13 s.

**Unlocked Concanavalin A Forms Amyloid-like Fibrils from Coagulation of Long-lived "Crinkled" Intermediates**

Vetri, V., Leone, M., Morozova-Roche, L. A., Vestergaard, Bente & Foderà, Vito, 2013, I: PLoS ONE. 8, 7, 11 s., e68912.

**Wildtype and A30P mutant alpha-synuclein form different fibril structures**

Nielsen, S. B., Macchi, F., Raccosta, S., Langkilde, Annette Eva, Giehm, L., Kyrsting, A. H., Svane, A. S. P., Manno, M., Christiansen, G., Nielsen, N. C., Oddershede, L. B., Vestergaard, Bente & Otzen, D., 2013, I: PLoS ONE. 8, 7, e67713.

**Structural Investigations of on-pathway Oligomers of  $\alpha$ -Synuclein**

Pedersen, M. N., Horvath, I., Weise, C. F., Foderà, Vito, Wittung-Stafshede, P., Wolf-Watz, M., Toft, K. N. & Vestergaard, Bente, 31 maj 2012.

**A high-affinity, dimeric inhibitor of PSD-95 bivalently interacts with PDZ1-2 and protects against ischemic brain damage**

Bach, Anders, Clausen, B. H., Møller, M., Vestergaard, Bente, Chi, C. N., Round, A., Sørensen, P. L., Nissen, K. B., Kastrup, Jette Sandholm Jensen, Gajhede, Michael, Jemth, P., Kristensen, Anders Skov, Lundström, P., Lamberts, K. L. & Strømgaard, Kristian, 28 feb. 2012, I: Proceedings of the National Academy of Sciences of the United States of America. 109, 9, s. 3317-3322

**High concentration formulation studies of an IgG2 antibody using small angle X-ray scattering**

Mosbæk, C. R., Konarev, P., Svergun, D. I., Rischel, C. & Vestergaard, Bente, 2012, I: Pharmaceutical Research. 29, 8, s. 2225-2235

**Structural characterization of prefibrillar intermediates and amyloid fibrils by small-angle X-ray scattering**

Langkilde, Annette Eva & Vestergaard, Bente, 2012, *Amyloid proteins: methods and protocols*. Sigurdsson, E. M., Calero, M. & Gasset, M. (red.). 2 udg. New York: Springer Science+Business Media, Bind 849. s. 137-155 18 s. (Methods in Molecular Biology, Bind 849).

**Structural model and *trans*-interaction of the entire ectodomain of the olfactory cell adhesion molecule**

Kulahin, N., Kristensen, O., Rasmussen, K. K., Olsen, L., Rydberg, P., Vestergaard, Bente, Kastrup, Jette Sandholm Jensen, Berezin, V., Bock, E., Walmod, P. S. & Gajhede, Michael, 9 feb. 2011, I: Structure. 19, 2, s. 203-211

**Automated microfluidic sample-preparation platform for high-throughput structural investigation of proteins by small-angle X-ray scattering**

Lafleur, J., Snakenborg, D., Nielsen, S. S., Møller, M., Toft, K. N., Menzel, A., Jacobsen, J. K., Vestergaard, Bente, Arleth, Lise & Kutter, J. P., 2011, I: Journal of Applied Crystallography. 44, s. 1090-1099 10 s.

**Low-resolution structure of a vesicle disrupting  $\alpha$ -synuclein oligomer that accumulates during fibrillation**

Giehm, L., Svergun, D. I., Otzen, D. E. & Vestergaard, Bente, 2011, I: Proceedings of the National Academy of Sciences of the United States of America. 108, 8, s. 3246-3251

**Self-association of long-acting insulin analogues studied by size exclusion chromatography coupled to multi-angle light scattering**

Jensen, M. H., Wahlund, P., Jacobsen, J. K., Vestergaard, Bente, van de Weert, Marco & Havelund, S., 2011, I: Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences. 879, 28, s. 2945-2951

**Extensive small-angle X-ray scattering studies of blood coagulation factor VIIa reveal interdomain flexibility**

Mosbæk, C. R., Nolan, D., Persson, E., Svergun, D. I., Bukrinsky, J. T. & Vestergaard, Bente, 2010, I: Biochemistry. 49, 45, s. 9739-9745

**Large-scale polymorphism and auto-catalytic effect in insulin fibrillogenesis**

Foderà, Vito, van de Weert, Marco & Vestergaard, Bente, 2010, I: Soft Matter. 6, 18, s. 4413-4419

**Time-resolved SAXS measurements facilitated by online HPLC buffer exchange**

Jensen, M. H., Toft, K. N., David, G., Havelund, S., Pérez, J. & Vestergaard, Bente, 2010, I: Journal of Synchrotron Radiation. 17, 6, s. 769-773

**BioXTAS RAW, a software program for high-throughput automated small-angle X-ray scattering data reduction and preliminary analysis**

Nielsen, S. S., Toft, K. N., Snakenborg, D., Jeppesen, Mads Gravers, Jacobsen, J. K., Vestergaard, Bente, Kutter, J. P. & Arleth, Lise, 2009, I: Journal of Applied Crystallography. 42, 5, s. 959-964 6 s.

**A new small-angle X-ray scattering set-up on the crystallography beamline I711 at MAX-lab**

Knaapila, M., Svensson, C., Barauskas, J., Zackrisson, M., Nielsen, S. S., Toft, K. N., Vestergaard, Bente, Arleth, Lise, Olsson, U., Pedersen, J. S. & Cerenius, Y., 2009, I: Journal of Synchrotron Radiation. 16, 4, s. 498-504 7 s.

**Formation mechanism of insulin fibrils and structural aspects of the insulin fibrillation process**

Jensen, M. G., Frøkjær, Sven & Vestergaard, Bente, 2009, I: Current Protein and Peptide Science. 10, 5, s. 509-528

**Methods for structural characterization of prefibrillar intermediates and amyloid fibrils**

Langkilde, Annette Eva & Vestergaard, Bente, 2009, I: FEBS Letters. 583, 16, s. 2600-2609

**Synergies within the natural sciences at the University of Copenhagen: an interfaculty evaluation of barriers and opportunities to improve the quality of infrastructure, research and education**

Krogsgaard-Larsen, Povl, Møller, Birger Lindberg, Larsen, Erik Hviid, Vestergaard, Bente, Lunde, C., Stæhr, P. A. & Andersen, J. (red.), 2009, Faculty of Life Sciences: Museum Tusulanum. 43 s.

**High-throughput small angle X-ray scattering from proteins in solution using a microfluidic front-end**

Toft, K. N., Vestergaard, Bente, Nielsen, S. S., Snakenborg, D., Jeppesen, Mads Gravers, Jacobsen, J. K., Arleth, Lise & Kutter, J. P., 2008, I: Analytical Chemistry. 80, 10, s. 3648-3654 7 s.

**Small angle X-ray scattering study of calreticulin reveals conformational plasticity**

Toft, K. N., Larsen, N., Jørgensen, Flemming Steen, Højrup, P., Houen, G. & Vestergaard, Bente, 2008, I: BBA General Subjects. 1784, 9, s. 1265-1270

**Small angle X-ray studies reveal that *Aspergillus niger* glucoamylase has a defined extended conformation and can form dimers in solution**

Jørgensen, A. D., Nøhr, J., Kastrup, Jette Sandholm Jensen, Gajhede, Michael, Sigurskjold, B. W., Sauer, J., Svergun, D. I., Svensson, B. & Vestergaard, Bente, 2008, I: Journal of Biological Chemistry. 283, 21, s. 14772-14780

**Structures of the ligand-binding core of iGluR2 in complex with the agonists (R)- and (S)-2-amino-3-(4-hydroxy-1,2,5-thiadiazol-3-yl)propionic acid explain their unusual equipotency**

Beich-Frandsen, M., Pickering, Darryl S, Mirza, Osman Asghar, Johansen, Tommy Nørskov, Greenwood, J., Vestergaard, Bente, Schousboe, Arne, Gajhede, Michael, Liljefors, T. & Kastrup, Jette Sandholm Jensen, 2008, I: Journal of Medicinal Chemistry. 51, 5, s. 1459-63

**A helical structural nucleus is the primary elongating unit of insulin amyloid fibrils**

Vestergaard, Bente, Jensen, M. G., Roessle, M., Kastrop, Jette Sandholm Jensen, van de Weert, Marco, Flink, J. M., Frøkjær, Sven, Gajhede, Michael & Svergun, D. I., 2007, I: PLoS - Biology. 5, 5, s. 1089-1097

**Gennembrud i forståelsen af insulinfibrillering**

Jensen, M. G., Vestergaard, Bente, Frøkjær, Sven, Gajhede, Michael, Flink, J. M., van de Weert, Marco, Kastrop, Jette Sandholm Jensen & Svergun, D. I., 2007, I: Lægemedelforskning. s. 10-11

**Ionotropic glutamate-like receptor d2 binds D-serine and glycine.**

Naur, P., Hansen, K. B., Kristensen, Anders Skov, Dravid, S. M., Pickering, Darryl S, Olsen, L., Vestergaard, Bente, Egebjerg, J., Gajhede, Michael, Traynelis, S. F. & Kastrop, Jette Sandholm Jensen, 2007, I: Proceedings of the National Academy of Science of the United States of America. 104, 35, s. 14116-14121

**Kimen til de farlige fibriller**

Jensen, M. G. & Vestergaard, Bente, 2007, I: Aktuel Naturvidenskab. 6, s. 12-15

**Application of Bayesian analysis to indirect fourier transformation in small-angle scattering**

Vestergaard, Bente & Hansen, S. L., 2006, I: Journal of Applied Crystallography. 39, s. 797-804 8 s.

**Diverse bacterial genomes encode an operon of two genes, one of which is a unusual class-I release factor that potentially recognizes atypical mRNA signals other than normal stop codons**

Baranov, P., Vestergaard, Bente, Hamelryck, Thomas Wim, Gesteland, Nyborg, J. & Atking, J., 2006, I: Biology Direct. 13, s. 1-28 28 s.

**Crystal structure of the kainate receptor GluR5 ligand-binding core in complex with (S)-glutamate**

Naur, P., Vestergaard, Bente, Skov, L., Egebjerg, J., Gajhede, Michael & Kastrop, Jette Sandholm Jensen, 2005, I: FEBS Letters. 579, s. 1154-60

**The SAXS Solution Structure of RF1 Differs from Its Crystal Structure and Is Similar to Its Ribosome Bound Cryo-EM Structure**

Vestergaard, Bente, Sanyal, S., Roessle, M., Mora, L., Buckingham, R., Kastrop, Jette Sandholm Jensen, Gajhede, Michael, Svergun, D. I. & Ehrenberg, M., 2005, I: Molecular Cell. 20, s. 929-938

**Tyr702 is an important determinant of agonist binding and domain closure of the ligand-binding core of GluR2**

Frandsen, A., Pickering, Darryl S, Vestergaard, Bente, Kasper, C., Nielsen, B. B., Greenwood, J. R., Campiani, G., Fattorusso, C., Gajhede, Michael, Schousboe, Arne & Kastrop, Jette Sandholm Jensen, 2005, I: Molecular Pharmacology. 67, 3, s. 703-13 10 s.

**A cryo-electron microscopic study of ribosome-bound termination factor RF2**

Rawat, Zavialov, A., Sengupta, Valle, Grasucci, Linde, Vestergaard, Bente, Ehrenberg, M. & Frank, J., 2003, I: Nature. 421, s. 87-90 4 s.

**Structure of the E. coli ribosomal termination complex with release factor 2**

Klaholz, B., Pape, T., Zavialov, A., Myasnikov, Orlova, Vestergaard, Bente, Ehrenberg, M. & van Heel, M., 2003, I: Nature. 421, s. 90-94 5 s.

**Recognition by tryptophanyl-tRNA synthetases of discriminator base on tRNA<sup>Trp</sup> from three biological domains**

Guo, Q., Vestergaard, Bente, Costa, Degres, Wong, Grosjean, Zhu, Wong & Xue, 2002, I: Journal of Biological Chemistry. 277, s. 14343-14349 6 s.

**Bacterial polypeptide release factor RF2 is structurally distinct from eukaryotic eRF1**

Vestergaard, Bente, Van, L. B., Andersen, G. R., Nyborg, J. & Kjeldgaard, M., 2001, I: Molecular Cell. 8, s. 1375-1382 7 s.

