

Jan Johannes Enghild

Professor, Ph.D. (Protein Chemistry).

Date and place of birth: 5th April 1956, Brønderslev, Denmark.

Position: Professor, Department of Molecular Biology and Genetics, Aarhus University.

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Academic Qualifications

1987 M. Sc. (Protein chemistry), University of Aarhus.

1991 Ph.D. (Protein chemistry), DUKE University, NC, USA and Aarhus University, Denmark.

Academic Appointments

1987-1989: Postdoc, Department of Pathology, Duke University, N.C. USA.

1989-1991: Assistant Medical Research Prof., Department of Pathology, DUKE University, N. C. USA.

1991- 2000: Assistant Professor, Department of Pathology, Duke University Medical Center, N. C. USA.

2001-2007: Associate professor, Aarhus University, Department of Molecular Biology, Denmark.

2007 - 2013: Professor MSO, Aarhus University, Department of Molecular Biology, Denmark.

2014 - : Professor, Aarhus University, Department of Molecular Biology, Denmark.

Professional Memberships

Human Proteome Organisation (HUPO), The American Society for Biochemistry and Molecular Biology ASBMB), The Association for Research in Vision and Ophthalmology (ARVO), International Society For Eye Research (ISER), American Society for Biochemistry and Molecular Biology; Biochemical Society (UK); The Oxygen Society (USA); American Society for Mass Spectrometry, International Mass Spectrometry Society; Association of Biomolecular Resource Facilities.

Leadership

1991-2000: Head of Laboratory for Proteolytic Regulation, DUKE University, NC, USA.

1991-2000: Director, Duke Comprehensive Cancer Center Macromolecular Facility, NC, USA

2000 - : Head of Laboratory for Proteome Analysis and Protein Characterization, Department of Molecular Biology and Genetics, Aarhus University, Denmark

2005 - : Member of Management board and Head of Protein Group of Center for Insoluble Protein Structures (inSPIN), Danish National Research Foundation, Denmark.

2005- : Project leader on grant from The Danish Agency for Science, Technology and Innovation.

2006- : Member of the Danish Proteome Society (DAPSOC) steering committee, Denmark.

2008- : Member of the Danish National Science Academy, member committee.

2010- : Project leader in the scientific alliance Novenia (funded by The Danish Agency for Science, Technology and Innovation).

2012- : Elected co-chairman for the Human Proteome Organisation (HUPO) ocular proteomics initiative.

Publication statistics

Published a total of 297 articles in peer-reviewed Journals (PubMed), 13 reviews and chapters in books. In addition, my publication list contains 7 international patents.

Sum of the times cited: 17040

Sum of times cites without self-citations: 16275

h-index: 59

Data above are from ISI WEB of Knowledge, October – 2019

See also Google Scholar:

<https://scholar.google.com/citations?user=AX7N3D8AAAAJ&hl=en>

Publications

Young rat microbiota extracts strongly inhibit fibrillation of α -synuclein and protect neuroblastoma cells and zebrafish against α -synuclein toxicity

Shiraz, M. G., Nielsen, J., Widmann, J., Chung, K. H. K., Davis, T. P., Rasmussen, C., Scavenius, C., Enghild, J. J., Martin-Gallaussiaux, C., Singh, Y., Javed, I. & Otzen, D. E., 25 Nov 2024, (E-pub ahead of print) In: *Molecules and cells*. p. 100161

Periostin Is a Disulfide-Bonded Homodimer and Forms a Complex with Fibronectin in the Human Skin

Rusbjerg-Weberskov, C. E., Scavenius, C., Enghild, J. J. & Nielsen, N. S., Oct 2024, In: *Biochemistry*. 63, 20, p. 2658-2669 12 p.

Mapping the Periostin splice isoforms in atopic dermatitis and an in vitro asthma model - A multi-platform analysis using mass spectrometry and RT-qPCR

Rusbjerg-Weberskov, C. E., Hollensen, A. K., Damgaard, C. K., Løvendorf, M. B., Skov, L., Enghild, J. J. & Nielsen, N. S., 1 Sept 2024, In: *B B A - Proteins and Proteomics*. 1872, 5, p. 141031 141031.

Chemical modification of hyaluronan oligosaccharides differentially modulates hyaluronan-hyaladherin interactions

Dodd, R. J., Blundell, C. D., Sattelle, B. M., Enghild, J. J., Milner, C. M. & Day, A. J., Sept 2024, In: *The Journal of Biological Chemistry*. 300, 9, 107668.

Proteolytic cleavage of the TGF β co-receptor CD109 changes its conformation, resulting in protease inhibition via activation of its thiol ester, and dissociation from the cell membrane

Jensen, K. T., Nielsen, N. S., Viana Almeida, A., Thøgersen, I. B., Enghild, J. J. & Harwood, S. L., Jul 2024, In: *FEBS journal*. 291, 14, p. 3169-3190 22 p.

Targeted Analysis of the Size Distribution of Heavy Chain-Modified Hyaluronan with Solid-State Nanopores

Erxleben, D. A., Dodd, R. J., Day, A. J., Green, D. E., DeAngelis, P. L., Poddar, S., Enghild, J. J., Huebner, J. L., Kraus, V. B., Watkins, A. R., Reesink, H. L., Rahbar, E. & Hall, A. R., 30 Jan 2024, In: *Analytical Chemistry*. 96, 4, p. 1606-1613 8 p.

Development of a top-down MS assay for specific identification of human periostin isoforms

Rusbjerg-Weberskov, C. E., Gant, M. S., Chamot-Rooke, J., Nielsen, N. S. & Enghild, J. J., 2024, In: *Frontiers in Molecular Biosciences*. 11, 12 p., 1399225.

Periostin C-Terminal Is Intrinsically Disordered and Interacts with 143 Proteins in an In Vitro Epidermal Model of Atopic Dermatitis

Rusbjerg-Weberskov, C. E., Johansen, M. L., Nowak, J. S., Otzen, D., Pedersen, J. S., Enghild, J. J. & Nielsen, N. S., Sept 2023, In: *Biochemistry*. 62, 19, p. 2803-2815 13 p.

Citrullination of C1-inhibitor as a mechanism of impaired complement regulation in rheumatoid arthritis

Martin, M., Nilsson, S. C., Eikrem, D., Fromell, K., Scavenius, C., Vogt, L. M., Bielecka, E., Potempa, J., Enghild, J. J., Nilsson, B., Ekdahl, K. N., Kapetanovic, M. C. & Blom, A. M., Jun 2023, In: *Frontiers in Immunology*. 14, 14 p., 1203506.

Structural remodelling of the carbon-phosphorus lyase machinery by a dual ABC ATPase

Amstrup, S. K., Ong, S. C., Sofos, N., Karlsen, J. L., Skjerning, R. B., Boesen, T., Enghild, J. J., Hove-Jensen, B. & Brodersen, D. E., Feb 2023, In: *Nature Communications*. 14, 1001.

A unique network of attack, defence and competence on the outer membrane of the periodontitis pathogen *Tannerella forsythia*

Książek, M., Goulas, T., Mizgalska, D., Rodríguez-Banqueri, A., Eckhard, U., Veillard, F., Waligórska, I., Benedyk-Machaczka, M., Sochaj-Gregorczyk, A. M., Madej, M., Thøgersen, I. B., Enghild, J. J., Cuppari, A., Arolas, J. L., de Diego, I., López-Pelegrín, M., García-Ferrer, I., Guevara, T., Dive, V. & Zani, M. L. & 3 others, Moreau, T., Potempa, J. & Gomis-Rüth, F. X., Jan 2023, In: *Chemical Science*. 14, 4, p. 869-888

Characterization of a novel cold-adapted intracellular serine protease from the extremophile *Planococcus halocryophilus* Or1

Rasmussen, C. B., Scavenius, C., Thøgersen, I. B., Harwood, S. L., Larsen, Ø., Bjerga, G. E. K., Stougaard, P., Enghild, J. J. & Thøgersen, M. S., 2023, In: *Frontiers in Microbiology*. 14, 15 p., 1121857.

A top-down approach to uncover the hidden ligandome of low-density lipoprotein receptor-related protein 1 in cartilage
Yamamoto, K., Scavenius, C., Meschis, M. M., Gremida, A. M. E., Mogensen, E. H., Thøgersen, I. B., Bonelli, S., Scilabra, S. D., Jensen, A., Santamaria, S., Ahnström, J., Bou-Gharios, G., Enghild, J. J. & Nagase, H., Sept 2022, In: Matrix Biology. 112, p. 190-218 29 p.

Differential RNA aptamer affinity profiling on plasma as a potential diagnostic tool for bladder cancer
Fjelstrup, S., Dupont, D. M., Bus, C., Enghild, J. J., Jensen, J. B., Birkenkamp-Demtröder, K., Dyrskjøt, L. & Kjems, J., Sept 2022, In: NAR cancer. 4, 3, zcac025.

The conformational change of the protease inhibitor α_2 -macroglobulin is triggered by the retraction of the cleaved bait region from a central channel
Harwood, S. L., Diep, K., Nielsen, N. S., Jensen, K. T. & Enghild, J. J., Aug 2022, In: Journal of Biological Chemistry. 298, 8, 11 p., 102230.

Human Occupation of the North American Colorado Plateau ~37,000 Years Ago
Rowe, T. B., Stafford, T. W., Fisher, D. C., Enghild, J. J., Quigg, J. M., Ketcham, R. A., Sagebiel, J. C., Hanna, R. & Colbert, M. W., Jul 2022, In: Frontiers in Ecology and Evolution. 10, 903795.

The low-density lipoprotein receptor-related protein 1 (LRP1) interactome in the human cornea
Mogensen, E. H., Poulsen, E. T., Thøgersen, I. B., Yamamoto, K., Brüel, A. & Enghild, J. J., Jun 2022, In: Experimental Eye Research. 219, 109081.

Cryo-EM structures of human A2ML1 elucidate the protease-inhibitory mechanism of the A2M family
Nielsen, N. S., Zarantonello, A., Harwood, S. L., Jensen, K. T., Kjøge, K., Thøgersen, I. B., Schausser, L., Karlsen, J. L., Andersen, G. R. & Enghild, J. J., May 2022, In: Nature Communications. 13, 1, 15 p., 3033.

A Protein Corona Modulates Interactions of α -Synuclein with Nanoparticles and Alters the Rates of the Microscopic Steps of Amyloid Formation
Mohammad-Beigi, H., Zanganeh, M., Scavenius, C., Eskandari, H., Farzadfar, A., Shojaosadati, S. A., Enghild, J. J., Otzen, D. E., Buell, A. K. & Sutherland, D. S., Jan 2022, In: ACS Nano. 16, 1, p. 1102-1118 17 p.

Identification of polyphenol oxidases in potato tuber (*Solanum tuberosum*) and purification and characterization of the major polyphenol oxidases
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Nielsen, N. H., Henriksen, P. S., Mortensen, M. F., Enevold, R., Mortensen, M. N., Scavenius, C. & Enghild, J. J., Oct 2021, In: Antiquity. 95, 383, p. 1195-1212 18 p.

Development of selective protease inhibitors via engineering of the bait region of human α_2 -macroglobulin
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Mutation-induced dimerization of transforming growth factor- β -induced protein may drive protein aggregation in granular corneal dystrophy
Nielsen, N. S., Gadeberg, T. A. F., Poulsen, E. T., Harwood, S. L., Weberskov, C. E., Pedersen, J. S., Andersen, G. R. & Enghild, J. J., Jul 2021, In: The Journal of Biological Chemistry. 297, 1, 14 p., 100858.

An Integrative Structural Biology Analysis of Von Willebrand Factor Binding and Processing by ADAMTS-13 in Solution
Del Amo-Maestro, L., Sagar, A., Pompach, P., Goulas, T., Scavenius, C., Ferrero, D. S., Castrillo-Briceño, M., Taulés, M., Enghild, J. J., Bernadó, P. & Gomis-Rüth, F. X., 25 Jun 2021, In: Journal of Molecular Biology. 433, 13, 166954.

Structural Investigations of Human A2M Identify a Hollow Native Conformation That Underlies Its Distinctive Protease-Trapping Mechanism

Harwood, S. L., Lyngsø, J., Zarantonello, A., Kjøge, K., Nielsen, P. K., Andersen, G. R., Pedersen, J. S. & Enghild, J. J., May 2021, In: Molecular and Cellular Proteomics. 20, 17 p., 100090.

PorZ, an Essential Component of the Type IX Secretion System of Porphyromonas gingivalis, Delivers Anionic Lipopolysaccharide to the PorU Sortase for Transpeptidase Processing of T9SS Cargo Proteins

Madej, M., Nowakowska, Z., Ksiazek, M., Lasica, A. M., Mizgalska, D., Nowak, M., Jacula, A., Bzowska, M., Scavenius, C., Enghild, J. J., Aduse-Opoku, J., Curtis, M. A., Gomis-Rüth, F. X. & Potempa, J., 23 Feb 2021, In: mBio. 12, 1, 14 p., e02262-20.

Superoxide dismutase 3 is expressed in bone tissue and required for normal bone homeostasis and mineralization

Matthiesen, C. L., Hu, L., Torslev, A. S., Poulsen, E. T., Larsen, U. G., Kjaer-Sorensen, K., Thomsen, J. S., Brüel, A., Enghild, J. J., Oxvig, C. & Petersen, S. V., Feb 2021, In: Free Radical Biology and Medicine. 164, p. 399-409 11 p.

ITIH4 acts as a protease inhibitor by a novel inhibitory mechanism

Pihl, R., Jensen, R. K., Poulsen, E. C., Jensen, L., Hansen, A. G., Thøgersen, I. B., Dobó, J., Gál, P., Andersen, G. R., Enghild, J. J. & Thiel, S., Jan 2021, In: Science Advances. 7, 2, 17 p., 7381.

Latency, thermal stability, and identification of an inhibitory compound of mirolysin, a secretory protease of the human periodontopathogen *Tannerella forsythia*

Zak, K. M., Bostock, M. J., Waligorska, I., Thøgersen, I. B., Enghild, J. J., Popowicz, G. M., Grudnik, P., Potempa, J. & Ksiazek, M., 2021, In: Journal of Enzyme Inhibition and Medicinal Chemistry. 36, 1, p. 1267-1281 15 p.

α_2 -macroglobulin-like protein 1 can conjugate and inhibit proteases through their hydroxyl groups, because of an enhanced reactivity of its thiol ester

Harwood, S. L., Nielsen, N. S., Jensen, K. T., Nielsen, P. K., Thøgersen, I. B. & Enghild, J. J., 4 Dec 2020, In: Journal of Biological Chemistry. 295, 49, p. 16732-16742 11 p.

FAM20C phosphorylation of the RGDSVYGLR motif in osteopontin inhibits interaction with the $\alpha v\beta 3$ integrin

Schytte, G. N., Christensen, B., Bregenov, I., Kjøge, K., Scavenius, C., Petersen, S. V., Enghild, J. J. & Sørensen, E. S., Dec 2020, In: Journal of Cellular Biochemistry. 121, 12, p. 4809-4818 10 p.

SARS-CoV-2 evades immune detection in alveolar macrophages

Dalskov, L., Møhlenberg, M., Thyrsted, J., Blay-Cadanet, J., Poulsen, E. T., Folkersen, B. H., Skaarup, S. H., Olganier, D., Reinert, L., Enghild, J. J., Hoffmann, H. J., Holm, C. K. & Hartmann, R., Dec 2020, In: EMBO Reports. 21, 12, e51252.

Substituting the Thiol Ester of Human A2M or C3 with a Disulfide Produces Native Proteins with Altered Proteolysis-Induced Conformational Changes

Harwood, S. L., Nielsen, N. S., Pedersen, H., Kjøge, K., Nielsen, P. K., Andersen, G. R. & Enghild, J. J., Dec 2020, In: Biochemistry. 59, 51, p. 4799-4809 11 p.

Protein Analysis of the TGFBI^{R124H} Mouse Model Gives Insight into Phenotype Development of Granular Corneal Dystrophy

Lukassen, M. V., Poulsen, E. T., Donaghy, J., Mogensen, E. H., Christie, K. A., Roshanravan, H., DeDioniso, L., Nesbit, M. A., Moore, T. & Enghild, J. J., Nov 2020, In: Proteomics - Clinical Applications. 14, 6, 1900072.

Modulation of Small RNA Signatures in Schwann-Cell-Derived Extracellular Vesicles by the p75 Neurotrophin Receptor and Sortilin

Gonçalves, N. P., Yan, Y., Ulrichsen, M., Venø, M. T., Poulsen, E. T., Enghild, J. J., Kjems, J. & Vægter, C. B., Oct 2020, In: Biomedicine. 8, 11, p. 1-24 24 p., 450.

Protein Composition of the Subretinal Fluid Suggests Selective Diffusion of Vitreous Proteins in Retinal Detachment

Poulsen, E. T., Lumi, X., Hansen, A. K., Enghild, J. J. & Petrovski, G., Oct 2020, In: Translational vision science & technology. 9, 11, p. 16 13 p., 16.

Transport of a peptide from bovine α_{s1} -casein across models of the intestinal and blood–brain barriers

Christensen, B., Toth, A. E., Nielsen, S. S. E., Scavenius, C., Petersen, S. V., Enghild, J. J., Rasmussen, J. T., Nielsen, M. S. & Sørensen, E. S., Oct 2020, In: *Nutrients*. 12, 10, 14 p., 3157.

Structural and functional insights into oligopeptide acquisition by the RagAB transporter from *Porphyromonas gingivalis*

Madej, M., White, J. B. R., Nowakowska, Z., Rawson, S., Scavenius, C., Enghild, J. J., Bereta, G. P., Pothula, K., Kleinekathoefer, U., Basle, A., Ranson, N. A., Potempa, J. & van den Berg, B., Aug 2020, In: *Nature Microbiology*. 5, 8, p. 1016-1025 10 p.

Tracing the In Vivo Fate of Nanoparticles with a "Non-Self" Biological Identity

Mohammad-Beigi, H., Scavenius, C., Jensen, P. B., Kjaer-Sorensen, K., Oxvig, C., Boesen, T., Enghild, J. J., Sutherland, D. S. & Hayashi, Y., Aug 2020, In: *ACS Nano*. 14, 8, p. 10666-10679 14 p.

Kallikrein-Related Peptidase 14 Activates Zymogens of Membrane Type Matrix Metalloproteinases (MT-MMPs)-A CleavEx Based Analysis

Falkowski, K., Bielecka, E., Thøgersen, I. B., Bocheńska, O., Płaza, K., Kalińska, M., Szaśiadek, L., Magoch, M., Pęczak, A., Wiśniewska, M., Gruba, N., Wysocka, M., Wojtysiak, A., Brzezińska-Bodal, M., Sychowska, K., Pejkovska, A., Rehders, M., Butler, G., Overall, C. M. & Brix, K. & 6 others, Dubin, G., Lesner, A., Kozik, A., Enghild, J. J., Potempa, J. & Kantyka, T., Jun 2020, In: *International Journal of Molecular Sciences*. 21, 12, p. 1-22 22 p., 4383.

Unfolding and partial refolding of a cellulase from the SDS-denatured state: From β -sheet to α -helix and back

Rasmussen, H. Ø., Enghild, J. J., Otzen, D. E. & Pedersen, J. S., Jan 2020, In: *B B A - General Subjects*. 1864, 1, p. 129434 1-12 12 p., 129434.

A novel approach for production of an active N-terminally truncated Ulp1 (SUMO protease 1) catalytic domain from *Escherichia coli* inclusion bodies

Linova, M. Y., Risør, M. W., Jørgensen, S. E., Mansour, Z., Kaya, J., Sigurdarson, J. J., Enghild, J. J. & Karring, H., 2020, In: *Protein Expression and Purification*. 166, 8 p., 105507.

Apolipoprotein E Triggers Complement Activation in Joint Synovial Fluid of Rheumatoid Arthritis Patients by Binding C1q

Vogt, L. M., Kwasniewicz, E., Talens, S., Scavenius, C., Bielecka, E., Ekdahl, K. N., Enghild, J. J., Mörgelin, M., Saxne, T., Potempa, J. & Blom, A. M., 2020, In: *Journal of Immunology*. 204, 10, p. 2779-2790 12 p.

FAM20C-Mediated Phosphorylation of MEPE and Its Acidic Serine- and Aspartate-Rich Motif

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Inter- α -inhibitor heavy chain-1 has an integrin-like 3D structure mediating immune regulatory activities and matrix stabilization during ovulation

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Mapping and identification of soft corona proteins at nanoparticles and their impact on cellular association

Mohammad-Beigi, H., Hayashi, Y., Zeuthen, C. M., Eskandari, H., Scavenius, C., Juul-Madsen, K., Vorup-Jensen, T., Enghild, J. J. & Sutherland, D. S., 2020, In: *Nature Communications*. 11, 1, 16 p., 4535.

Plasmin inhibition by bacterial serpin: Implications in gum disease

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STEEP mediates STING ER exit and activation of signaling

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The interactome of stabilized α -synuclein oligomers and neuronal proteins

van Diggelen, F., Frank, S. A., Somavarapu, A. K., Scavenius, C., Apetri, M. M., Nielsen, J., Tepper, A. W. J. W., Enghild, J. J. & Otzen, D. E., 2020, In: FEBS journal. 287, 10, p. 2037-2054 18 p.

Proteolytic processing and activation of gingipain zymogens secreted by T9SS of *Porphyromonas gingivalis*

Veillard, F., Sztukowska, M., Nowakowska, Z., Mizgalska, D., Thøgersen, I. B., Enghild, J. J., Bogyo, M., Potempa, B., Nguyen, K.-A. & Potempa, J., Nov 2019, In: Biochimie. 166, p. 161-172 12 p.

Matrix-degrading protease ADAMTS-5 cleaves inter- α -inhibitor and releases active heavy chain 2 in synovial fluids from arthritic patients

Scavenius, C., Poulsen, E. C., Thøgersen, I. B., Roebuck, M., Frostick, S., Bou-Gharios, G., Yamamoto, K., Deleuran, B. & Enghild, J. J., Oct 2019, In: Journal of Biological Chemistry. 294, 42, p. 15495-15504 10 p.

Sex dictates the constitutive expression of hepatic cytochrome P450 isoforms in Göttingen minipigs

Rasmussen, M. K., Scavenius, C., Gerbal-Chaloin, S. & Enghild, J., Oct 2019, In: Toxicology Letters. 314, p. 181-186 6 p.

The serine protease HtrA1 cleaves misfolded transforming growth factor β -induced protein (TGFB1p) and induces amyloid formation

Poulsen, E. T., Nielsen, N. S., Scavenius, C., Mogensen, E. H., Risør, M. W., Runager, K., Lukassen, M. V., Rasmussen, C. B., Christiansen, G., Richner, M., Vorum, H. & Enghild, J. J., Aug 2019, In: Journal of Biological Chemistry. 294, 31, p. 11817-11828 12 p.

Sortilin gates neurotensin and BDNF signaling to control peripheral neuropathic pain

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***Staphylococcus saccharolyticus* Isolated From Blood Cultures and Prosthetic Joint Infections Exhibits Excessive Genome Decay**

Bruggemann, H., Poehlein, A., Brzuszkiewicz, E., Scavenius, C., Enghild, J. J., Al-Zeer, M. A., Brinkmann, V., Jensen, A. & Soderquist, B., 12 Mar 2019, In: Frontiers in Microbiology. 10, 14 p., 478.

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Frequently used bioinformatics tools overestimate the damaging effect of allelic variants

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