

## Full Publication List (May 2026, 1-237)

### 2026

Altenburger, L.M., Carvoeiro, D.C., Dehio, P., **Zhou, J.**, Laura, C., Bofi, I.C.A., Katoch, M., Kruger, C., de Albuquerque, J.B., Pfenninger, P., et al. (2026). Lymphoid tissue chemokines limit priming duration to preserve CD8(+) T cell functionality. **Science** 392, eadq2080.

Brugnara, C., Diaz, M.C., Bultri, J., Liebsch, D., Hita, F.J., Lucero, D.A., Fusari, C.M., **Dengjel, J.**, Levi, V., and Blanco, N.E. (2026). Quantification of SnRK1.1 response through analysis of its intracellular distribution. **Plant Cell Rep** 45, 26.

Canbay, V., Wustemann, T., Tian, W., Beyer, T.A., Elbaek, C.R., **Stumpe, M.**, Restivo, G., Christiansen, C., Migenda Herranz, A., Mailand, S., et al. (2026). Multi-omics analysis reveals dermokine as a regulator of keratinocyte differentiation and adhesion. **JCI Insight**.

Dokladal, L., Peli-Gulli, M.P., Alba, J., **Stumpe, M.**, Jaquenoud, M., Klemt, I., Jaggi, C.A., Calviello, R.L., **Hu, Z.**, **Siva Sankar, D.**, et al. (2026). The nitrogen starvation-induced inhibitor Rts3 restrains Sit4/PP6 to gate quiescence downstream of TORC1. **Nat Commun** 17.

Elbaek, C.R., Gradinaru, S., Dahlstrom, A.M., Frueh, A., Jahan, A.S., Cuenco, J., Aalto, A.L., Rizk, J., Hawley, S.A., Franks, S.N.J., et al. (2026). M1-linked ubiquitination by LUBAC regulates AMPK signalling and the response to energetic stress. **Cell Death Differ**.

Favre, S., Pillet, B., Burchert, F., **Siva Sankar, D.**, Mendez-Godoy, A., Kiontke, S., **Dengjel, J.**, Bange, G., and Kressler, D. (2026). Exploration of the proxiOME of large subunit ribosomal proteins reveals Acl1 and Bcl1 as cooperating dedicated chaperones of Rpl1. **Nucleic Acids Res** 54.

Mantella, V., Bienz, S., Brigger, F., Baulier, E., Ramus, M., Zoratto, N., Honrath, S., Naresh, K., **Sander, S.**, **Dengjel, J.**, et al. (2026). Isolation of bacterial extracellular vesicles from raw samples using a portable microstructured electrochemical device. **Drug Deliv Transl Res** 16, 1479-1494.

Marchioro, L.O., De Stefanis, S., Araujo, B.G., Mariotti, D., Watanabe, I.K.M., **Stumpe, M.**, Matusali, G., Maggi, F., Smaili, S.S., **Dengjel, J.**, et al. (2026). Tetrandrine-driven autophagy suppresses SARS-CoV-2 replication by modulating cholesterol and IGF signaling pathways. **Cell Death Discov** 12, 82.

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### 2025

Bendl, E., **Lampo, G.**, Chlanda, P., Schnettler, E., Kochs, G., **Dengjel, J.**, and Graf, L. (2025). A novel accessory gene product of tick-borne Dhori-Orthomyxovirus, encoded by overlooked spliced transcripts of RNA segment 6. **J Virol** 99, e0060025.

**Brunner, M.**, **Hu, Z.**, Elkhaily, H., **Lampo, G.**, **Roubaty, C.**, **Vionnet, C.**, **Sankar, D.S.**, McIlwain, S.J., **Kaesler-Pebernard, S.**, Xing, Y., and **Dengjel, J.** (2025). Combination of in vivo and in vitro phosphoproteomics determines the PP2A target repertoire on proteome scale. **Cell Rep Methods** 5, 101084.

Cangkrama, M., Liu, H., Wu, X., Yates, J., Whipman, J., Gabelein, C.G., Matsushita, M., Ferrarese, L., **Sander, S.**, Castro-Giner, F., et al. (2025). MIRO2-mediated mitochondrial transfer from cancer cells induces cancer-associated fibroblast differentiation. **Nat Cancer** 6, 1714-1733.

Hertzog, N., Duman, M., Bochud, M., Brugger-Verdon, V., Gerhards, M., Schon, F., Dorndecker, F., Meijer, D., Fledrich, R., Stassart, R., et al. (2025). Hypoxia-induced conversion of sensory Schwann cells into repair cells is regulated by HDAC8. **Nat Commun** 16, 515.

Jimenez-Loygorri, J.I., Shang, P., **Bayramoglu, I.**, Gomez-Sintes, R., Martin-Segura, A., Ambrosino, H., Hoang, J., Diaz, A., Geng, Z., Gavathiotis, E., et al. (2025). Defective chaperone-mediated autophagy in the retinal pigment epithelium of age-related macular degeneration patients. **EMBO Mol Med** 17, 3472-3495.

**Leytens, A.**, Benitez-Fernandez, R., Jimenez-Garcia, C., **Roubaty, C.**, **Stumpe, M.**, Boya, P., and **Dengjel, J.** (2025). Targeted proteomics addresses selectivity and complexity of protein degradation by autophagy. **Autophagy** 21, 460-475.

Mantella, V., Bienz, S., Brigger, F., Baulier, E., Ramus, M., Zoratto, N., Honrath, S., Naresh, K., **Sander, S.**, **Dengjel, J.**, et al. (2026). Isolation of bacterial extracellular vesicles from raw samples using a portable microstructured electrochemical device. **Drug Deliv Transl Res** 16, 1479-1494.

Nicastro, R., Peli-Gulli, M.P., Caligaris, M., Jaquenoud, M., Dokladal, L., Alba, J., Tripodi, F., Pillet, B., **Brunner, M.**, **Stumpe, M.**, et al. (2025). TORC1 autonomously controls its spatial partitioning via the Rag GTPase tether Tco89. **Cell Rep** 44, 115683.

Pascal, G.J., Mondal, D.K., Kim, S., Xie, C., **Siva Sankar, D.**, **Dengjel, J.**, and Iozzo, R.V. (2025). Decorin Evokes a Pro-lysosomal Pathway in Lymphatic Endothelial Cells. **Proteoglycan Res** 3.

Rothemann, R.A., Pavlenko, E., Mondal, M., Gerlich, S., Grobushkin, P., Mostert, S., Racho, J., Weiss, K., Stobbe, D., Stillger, K., et al. (2025). Interaction with AK2A links AIFM1 to cellular energy metabolism. **Mol Cell** 85, 2550-2566 e2556.

Rudgalvyte, M., **Hu, Z.**, Kressler, D., **Dengjel, J.**, and Glauser, D.A. (2025). Antagonist actions of CMK-1/CaMKI and TAX-6/calcineurin along the *C. elegans* thermal avoidance circuit orchestrate adaptation of nociceptive response to repeated stimuli. **Elife** 14.

**Sander, S.**, **Leytens, A.**, and **Dengjel, J.** (2025). Deep Proteome Profiling of Primary Skin Fibroblasts. **Methods Mol Biol** 2922, 197-207.

**Sankar, D.S.**, and **Dengjel, J.** (2025). Interactors and neighbors of ULK1 complex members. **Autophagy** 21, 243-245.

Thorup, C.V., Jeppesen, C.N.A., Jensen, T.H., Tinggaard, A.B., Hvas, C.L., Rud, C.L., Skou, M.K., Mortensen, J.K., Reggiori, F., **Dengjel, J.**, et al. (2025). POLYamine treatment in elderly patients with Coronary Artery Disease (POLYCAD): study protocol for a Danish randomised, double-blind, placebo-controlled trial of spermidine treatment versus placebo. **Trials** 26, 452.

Zapata-Munoz, J., Jimenez-Loygorri, J.I., **Stumpe, M.**, Villarejo-Zori, B., Alonso-Gil, S., Teresak, P., Mathai, B.J., Ganley, I.G., Simonsen, A., **Dengjel, J.**, et al. (2025). The Developing Retina Undergoes Mitochondrial Remodeling via PINK1/PRKN-dependent Mitophagy. **J Mol Biol** 437, 169263.

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Christen, D., Lauinger, M., **Brunner, M.**, **Dengjel, J.**, and Brummer, T. (2024). The mTOR pathway controls phosphorylation of BRAF at T401. **Cell Commun Signal** 22, 428.

Da Silva Andre, G., Paganella, L.G., Badolato, A., **Sander, S.**, Giampietro, C., Tibbitt, M.W., **Dengjel, J.**, and Labouesse, C. (2024). Protein Isolation from 3D Hydrogel Scaffolds. **Curr Protoc** 4, e966.

Filali-Mouncef, Y., **Leytens, A.**, Vargas Duarte, P., Zampieri, M., **Dengjel, J.**, and Reggiori, F. (2024). An APEX2-based proximity-dependent biotinylation assay with temporal specificity to study protein interactions during autophagy in the yeast *Saccharomyces cerevisiae*. **Autophagy** 20, 2323-2337.

Gross, A.S., Ghillebert, R., Schuetter, M., Reinartz, E., Rowland, A., Bishop, B.C., **Stumpe, M.**, **Dengjel, J.**, and Graef, M. (2024). A metabolite sensor subunit of the Atg1/ULK complex regulates selective autophagy. **Nat Cell Biol** 26, 366-377.

Hofer, S.J., Daskalaki, I., Bergmann, M., Friscic, J., Zimmermann, A., Mueller, M.I., Abdellatif, M., Nicastro, R., Masser, S., Durand, S., et al. (2024). Spermidine is essential for fasting-mediated autophagy and longevity. **Nat Cell Biol** 26, 1571-1584.

Kolitsida, P., Nolic, V., **Zhou, J.**, **Stumpe, M.**, Niemi, N.M., **Dengjel, J.**, and Abeliovich, H. (2024). Correction: The pyruvate dehydrogenase complex regulates mitophagic trafficking and protein phosphorylation. **Life Sci Alliance** 7.

Maas-Bauer, K., Stell, A.V., Yan, K.L., de Vega, E., Vinnakota, J.M., Unger, S., Nunez, N., Norona, J., Talvard-Balland, N., Kossman, S., et al. (2024). ROCK1/2 signaling contributes to corticosteroid-refractory acute graft-versus-host disease. **Nat Commun** 15, 446.

Mandhair, H.K., Radpour, R., Westerhuis, M., Banz, Y., Humbert, M., Arambasic, M., **Dengjel, J.**, Davies, A., Tschan, M.P., and Novak, U. (2024). Analysis of autophagy in DLBCL reveals subtype-specific differences and the preferential targeting of ULK1 inhibition in GCB-DLBCL provides a rationale as a new therapeutic approach. **Leukemia** 38, 424-429.

Nystrom, A., and **Dengjel, J.** (2024). A Top-Notch Target. **J Invest Dermatol** 144, 1421-1423.

Primerano, A., De Domenico, E., Cianfarani, F., De Luca, N., Floriddia, G., Teson, M., Cristofolletti, C., Cardarelli, S., Scaglione, G.L., Baldini, E., et al. (2024). Histone deacetylase inhibition mitigates fibrosis-driven disease progression in recessive dystrophic epidermolysis bullosa. **Br J Dermatol** 191, 568-579.

**Sankar, D.S.**, **Kaesler-Pebernard, S.**, **Vionnet, C.**, Favre, S., de Oliveira Marchioro, L., Pillet, B., **Zhou, J.**, **Stumpe, M.**, Kovacs, W.J., Kressler, D., Antonioli, M., Fimia, G. M., and **Dengjel, J.** (2024). The ULK1 effector BAG2 regulates autophagy initiation by modulating AMBRA1 localization. **Cell Rep** 43, 114689.

Zeyer, K.A., Bornert, O., Nelea, V., Bao, X., **Leytens, A.**, Sharoyan, S., Sengle, G., Antonyan, A., Bruckner-Tuderman, L., **Dengjel, J.**, et al. (2024). Dipeptidyl Peptidase-4-Mediated Fibronectin Processing Evokes a Profibrotic Extracellular Matrix. **J Invest Dermatol** 144, 2477-2487 e2413.

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Arlt, H., Raman, B., Filali-Mouncef, Y., Hu, Y., **Leytens, A.**, Hardenberg, R., Guimaraes, R., Kriegenburg, F., Mari, M., Smaczynska-de, R., II, et al. (2023). The dynamin Vps1 mediates Atg9 transport to the sites of autophagosome formation. **J Biol Chem** 299, 104712.

Bahl, A., Ibrahim, C., Plate, K., Haase, A., **Dengjel, J.**, Nymark, P., and Dumit, V.I. (2023). PROTEOMAS: a workflow enabling harmonized proteomic meta-analysis and proteomic signature mapping. **J Cheminform** 15, 34.

Caligaris, M., Nicastro, R., **Hu, Z.**, Tripodi, F., Hummel, J.E., Pillet, B., Deprez, M.A., Winderickx, J., Rospert, S., Coccetti, P., et al. (2023). Snf1/AMPK fine-tunes TORC1 signaling in response to glucose starvation. **Elife** 12.

Faienza, F., Polverino, F., Rajendraprasad, G., Milletti, G., Hu, Z., Colella, B., Gargano, D., Strappazzon, F., Rizza, S., Vistesén, M.V., et al. (2023). AMBRA1 phosphorylation by CDK1 and PLK1 regulates mitotic spindle orientation. **Cell Mol Life Sci** 80, 251.

Kallergi, E., **Siva Sankar, D.**, Matera, A., Kolaxi, A., Paolicelli, R.C., **Dengjel, J.**, and Nikolettou, V. (2023). Profiling of purified autophagic vesicle degradome in the maturing and aging brain. **Neuron** 111, 2329-2347 e2327.

Kolitsida, P., Nolic, V., **Zhou, J.**, **Stumpe, M.**, Niemi, N.M., **Dengjel, J.**, and Abeliovich, H. (2023). The pyruvate dehydrogenase complex regulates mitophagic trafficking and protein phosphorylation. **Life Sci Alliance** 6.

Krivitsky, V., Krivitsky, A., Mantella, V., Ben-Yehuda Greenwald, M., **Sankar, D.S.**, Betschmann, J., Bader, J., Zoratto, N., Schreier, K., Feiss, S., et al. (2023). Ultrafast and Controlled Capturing, Loading, and Release of Extracellular Vesicles by a Portable Microstructured Electrochemical Fluidic Device. **Adv Mater** 35, e2212000.

Lauinger, M., Christen, D., Klar, R.F.U., **Roubaty, C.**, Heilig, C.E., **Stumpe, M.**, Knox, J.J., Radulovich, N., Tamblyn, L., Xie, I.Y., et al. (2023). BRAF(Delta beta3-alphaC) in-frame deletion mutants differ in their dimerization propensity, HSP90 dependence, and druggability. **Sci Adv** 9, eade7486.

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Pena-Francesch, M., Vanoaica, L.D., Zhu, G.F., **Stumpe, M.**, **Sankar, D.S.**, Nowag, H., Valencia-Camargo, A.D., Hammerschmidt, W., **Dengjel, J.**, Ligeon, L.A., et al. (2023). The autophagy machinery interacts with EBV capsids during viral envelope release. **Proc Natl Acad Sci U S A** 120, e2211281120.

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**Kaesler-Pebarnard, S.**, **Vionnet, C.**, Mari, M., **Sankar, D.S.**, **Hu, Z.**, **Roubaty, C.**, **Martinez-Martinez, E.**, Zhao, H., Spuch-Calvar, M., Petri-Fink, A., Rainer, G., Steinberg, F., Reggiori, F., and **Dengjel, J.** (2022). mTORC1 controls Golgi architecture and vesicle secretion by phosphorylation of SCYL1. **Nat Commun** 13, 4685.

Karamash, M., **Stumpe, M.**, **Dengjel, J.**, Sagueiro, C.A., Giese, B., and Fromm, K.M. (2022). Reduction Kinetic of Water Soluble Metal Salts by *Geobacter sulfurreducens*: Fe(2+)/Hemes Stabilize and Regulate Electron Flux Rates. **Front Microbiol** 13, 909109.

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Bernasconi R, **Thriene K,** Romero-Fernandez E, **Gretzmeier C,** Kuhl T, Maler M, Nauroy P, Kleiser S, Ruhl-Muth AC, **Stumpe M,** Kiritsi D, Martin SF, Hinz B, Bruckner-Tuderman L, **Dengjel J,** Nystrom A (2021) Pro-inflammatory immunity supports fibrosis advancement in epidermolysis bullosa: intervention with Ang-(1-7). **EMBO Mol Med** 13: e14392

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**Hu Z, Sankar DS, Vu B, Leytens A, Vionnet C, Wu W, Stumpe M, Martinez-Martinez E, Stork B, Dengjel J** (2021) ULK1 phosphorylation of striatin activates protein phosphatase 2A and autophagy. **Cell Rep** 36: 109762

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**Martinez-Martinez E, Tolle R, Donauer J, Gretzmeier C, Bruckner-Tuderman L, Dengjel J** (2021) Increased abundance of Cbl E3 ligases alters PDGFR signaling in recessive dystrophic epidermolysis bullosa. **Matrix Biol** 103-104: 58-73

**Siva Sankar D, Dengjel J** (2021) Protein complexes and neighborhoods driving autophagy. **Autophagy** 17: 2689-2705

**Siva Sankar D, Hu Z, Dengjel J** (2021) The complex interplay between ULK1 and protein phosphatases in autophagy regulation. **Autophagy**: 1-2

**Vu B, Souza GR, Dengjel J** (2021) Scaffold-free 3D cell culture of primary skin fibroblasts induces profound changes of the matrisome. **Matrix Biol Plus** 11: 100066

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