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Acoustofluidics group
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Research

Sound carries energy that can exert forces on suspended microscopic objects such as blood cells and biological nanoparticles. My group studies the physics of ultrasonic waves that interacts with fluids and suspended objects.
We have discovered several phenomena that relate to how sound interacts with fluids and cells. We recently introduced and continue to explore the concept of thermoacoustic streaming, where ultrasound drives fast localised flows in a fluid that is heated by a laser. This can be used to control the location and rotation of small objects such as cells under a microscope inside micro-chambers.
We also study if different types of cells have specific sound properties that makes them distinguishable from other cells. For instance, we have observed that the cells in blood can become organised in a predictable way when packed closely together in a sound field. This is because red blood cells have sound properties that differ from those of, e.g. white blood cells. This can be used to gain access to rare cells directly from untreated blood.
In collaboration with biologists and biomedical researchers, we build instruments to separate cells and nanoparticles from complex biological fluids by ultrasound.

Employment

Professor
Division for Biomedical Engineering
Lund University
Lund, Sweden
2015 Sept 21 → present

Senior lecturer
Acoustofluidics group
Lund University
Sweden
2017 Jun 12 → present

Member of Strategic Research Area
NanoLund: Centre for Nanoscience
Lund University
Lund, Sweden
2022 Mar 30 → present

Profile area member
LTH Profile Area: Engineering Health
Lund University
Sweden
2022 Jun 28 → present

Profile area member
LTH Profile Area: Nanoscience and Semiconductor Technology
Lund University
Sweden
2022 Aug 30 → present

Profile area member
LTH Profile Area: Photon Science and Technology
Lund University
Sweden
2022 Sept 13 → present

Profile area member
LU Profile Area: Light and Materials
Lund University
Sweden
2023 Jan 1 → present

Profile area member
Lund Laser Centre, LLC
Lund University
Lund, Sweden
2025 Oct 29 → present

Professor
Per Augustsson's Research Group
Lund University
Sweden
2026 Jan 22 → present

Research outputs

Single-cell mass-density measurements using microchannel gradient centrifugation
Soller, R., Augustsson, P. & Barnkob, R., 2026 Dec, In: Scientific Reports. 16, 1, 6501.

Thermoacoustic streaming in a linear temperature gradient
Corato, E., van Assche, D., Jakobsson, O., Qiu, W. & Augustsson, P., 2025 Aug 4, In: Physical Review E. 112, 2, 10 p., 025102.

In-Line Enrichment of Cancer Cells from Whole Blood by Cell Self-Organization in Acoustic Fields
Soller, R., Jakobsson, O. & Augustsson, P., 2025 Jul 1, In: Analytical Chemistry. 97, 25, p. 13310-13317 8 p.

Configurable thermoacoustic streaming by laser-induced temperature gradients
Martens, F., Qiu, W., Jakobsson, O., Cierpka, C., Ehn, A. & Augustsson, P., 2025 Feb 18, In: Physical Review Applied. 23 , 2, 12 p., 024043.

High-energy-density acoustofluidic device using a double-parabolic ultrasonic transducer
Corato, E., Jakobsson, O., Qiu, W., Morita, T. & Augustsson, P., 2025 Feb 12, In: Physical Review Applied. 23, 10 p., 024031.

Automation Strategies for Acoustofluidics Experiments
Jakobsson, O., Corato, E., Martens, F. & Augustsson, P., 2025.

Temperature-controlled acoustofluidics
Corato, E., Jakobsson, O., Gerlt, M., Qiu, W. & Augustsson, P., 2025.

Two-Step Acoustic Cell Separation Based on Cell Size and Acoustic Impedance—toward Isolation of Viable Circulating Tumor Cells
Magnusson, C., Rezayati Charan, M. & Augustsson, P., 2025, In: Analytical Chemistry. 97, 4, p. 2120-2126 7 p.

Sound to guide cells
Augustsson, P., 2024 Oct 9.

Transient buildup and decay of thermoacoustic streaming
Augustsson, P., 2024 Aug 14. 2 p.

Two-step acoustofluidic cancer cell enrichment
Augustsson, P., 2024 Aug 14. 2 p.

Label-free separation of peripheral blood mononuclear cells from whole blood by gradient acoustic focusing
Alsved, J., Rezayati Charan, M., Ohlsson, P., Urbansky, A. & Augustsson, P., 2024 Apr 16, In: Scientific Reports. 14, 1, 12 p., 8748.

Acoustic Enrichment of Heterogeneous Circulating Tumor Cells and Clusters from Metastatic Prostate Cancer Patients
Magnusson, C., Augustsson, P., Undvall Anand, E., Lenshof, A., Josefsson, A., Welén, K., Bjartell, A., Ceder, Y., Lilja, H. & Laurell, T., 2024, In: Analytical Chemistry. 96, 18, p. 6914-6921

Acoustic enrichment of heterogenous circulating tumor cells and clusters from patients with metastatic prostate cancer
Magnusson, C., Augustsson, P., Undvall Anand, E., Lenshof, A., Josefsson, A., Welén, K., Bjartell, A., Ceder, Y., Lilja, H. & Laurell, T., 2023 Dec 4, medRxiv.

Acoustophoretic Characterization and Separation of Blood Cells in Acoustic Impedance Gradients
Rezayati Charan, M. & Augustsson, P., 2023 Aug 25, In: Physical Review Applied. 20, 2, 16 p., 024066.

Acoustofluidic Three-Dimensional Motion of Suspended Cells at Near-Zero Acoustic Contrast in Homogeneous Media
Rezayati Charan, M., Berg, F. & Augustsson, P., 2023, In: Physical Review Applied. 19, 1, 014046.

Acoustophoresis enriches tumor cell clusters in blood of patients with prostate cancer
Magnusson, C., Augustsson, P., Undvall Anand, E., Lenshof, A., Josefsson, A., Welén, K., Bjartell, A., Olsson, A. Y., Lilja, H. G. & Laurell, T., 2023.

Acoustophoresis enrichment of tumor cell clusters in blood of patients with metastatic prostate cancer
Magnusson, C., Augustsson, P., Undvall Anand, E., Lenshof, A., Josefsson, A., Bjartell, A., Olsson, A. Y., Lilja, H. G. & Laurell, T., 2023, (Unpublished).

Freeze Frame Imaging- a new imaging technique for fast dynamics particle tracking
Jakobsson, O., Rossi, M., Cierpka, C. & Augustsson, P., 2023.

High-power acoustofluidics driven by line double-parabolic-reflectors wave-guided high-power ultrasonic transducer
Corato, E., Qiu, W., Morita, T. & Augustsson, P., 2023.

High-power bulk wave acoustofluidics
Corato, E., Jakobsson, O., Qiu, W., Morita, T. & Augustsson, P., 2023.

Rare cell enrichment by cell self-organization in acoustic fields
Soller, R., Jakobsson, O. & Augustsson, P., 2023, (Unpublished).

The acoustophoretic migration and separation of suspended cells in acoustic impedance gradients
Rezayati Charan, M. & Augustsson, P., 2023, (Unpublished).

Transient behavior and acoustic streaming effects in acoustically packed blood
Soller, R., Jakobsson, O., Qiu, W. & Augustsson, P., 2023.

Determination of the Complex-Valued Elastic Moduli of Polymers by Electrical-Impedance Spectroscopy for Ultrasound Applications
Bodé, W. N., Lickert, F., Augustsson, P. & Bruus, H., 2022 Dec, In: Physical Review Applied. 18, 6, 064078.

Electrical impedance spectroscopy for acoustofluidic applications
Bodé, W. N., Lickert, F., Augustsson, P. & Bruus, H., 2022, p. 110-111.

Thermoacoustic streaming in a linear temperature gradient for perpendicular and parallel ultrasound fields
Corato, E., H. Jørgensen, J., Jakobsson, O., Qiu, W., Bruus, H. & Augustsson, P., 2022, p. 190-191.

Thermoacoustic Streaming Induced by Asymmetric Laser Heating
Martens, F., Qiu, W. & Augustsson, P., 2022, p. 128-129.

Towards high-throughput microfluidic compressibility cytometry using gradient acoustic focusing integrated with density centrifugation
Rezayati Charan, M., Andersson, O., Jakobsson, O. & Augustsson, P., 2022.

Fast Microscale Acoustic Streaming Driven by a Temperature-Gradient-Induced Nondissipative Acoustic Body Force
Qiu, W., Joergensen, J., Corato, E., Bruus, H. & Augustsson, P., 2021 Aug 3, In: Physical Review Letters. 127, 6, 6 p., 064501.

Effects of a Laser-induced Thermal Gradient on the Acoustic Streaming Field
Martens, F., Qiu, W., Ehn, A. & Augustsson, P., 2021.

Self-organization by acoustic contrast factor in acoustically packed beds of whole blood and in-line removal of red blood cells
Augustsson, P., Soller, R. & Jakobsson, O., 2021.

Particle-size-dependent acoustophoretic motion and depletion of micro- and nano-particles at long timescales
Qiu, W., Bruus, H. & Augustsson, P., 2020 Jul 21, In: Physical Review E. 102, 1, 11 p., 013108.

Gradient acoustic focusing of sub-micron particles for separation of bacteria from blood lysate
Van Assche, D., Reithuber, E., Qiu, W., Laurell, T., Henriques-Normark, B., Mellroth, P., Ohlsson, P. & Augustsson, P., 2020 Feb 28, In: Scientific Reports. 10, 1, 3670.

Charting cell properties through their acoustophoretic migration in a gradient of density and compressibility
Rezayati Charan, M. & Augustsson, P., 2020.

Thermal-gradient-induced fast convection in acoustofluidic devices
Qiu, W., H. Jørgensen, J., Corato, E., Bruus, H. & Augustsson, P., 2020.

Experimental Characterization of Acoustic Streaming in Gradients of Density and Compressibility
Qiu, W., Karlsen, J. T., Bruus, H. & Augustsson, P., 2019 Feb 7, In: Physical Review Applied. 11, 2, 11 p., 024018.

Acoustic patterning of concentration fields and its real-time imaging
Qiu, W., Beech, J., Tegenfeldt, J., Bruus, H. & Augustsson, P., 2019, (Unpublished).

Plasma generation and label-free mononuclear cell separation from whole blood by one-step acoustic focusing
Alsved, J., Urbansky, A., Ohlsson, P., Petersson, K., Nielsen, E., Michanek, A. & Augustsson, P., 2019, *23rd International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2019.* Chemical and Biological Microsystems Society, p. 140-141 2 p. (23rd International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2019).

Acoustic impedance matched buffers enable separation of bacteria from blood cells at high cell concentrations
Ohlsson, P., Petersson, K., Augustsson, P. & Laurell, T., 2018 Dec 1, In: Scientific Reports. 8, 1, 9156.

Acoustic Streaming and Its Suppression in Inhomogeneous Fluids
Karlsen, J. T., Qiu, W., Augustsson, P. & Bruus, H., 2018 Jan 30, In: Physical Review Letters. 120, 5, 6 p., 054501.

Acoustofluidic hematocrit determination
Petersson, K., Jakobsson, O., Ohlsson, P., Augustsson, P., Scheding, S., Malm, J. & Laurell, T., 2018, In: Analytica Chimica Acta. 1000, p. 199-204

ACouWash: A standalone instrument for the washing, separation and enrichment of cells.
Mallinson, J., Linander, O., Magnusson, C., Pircs, K. & Augustsson, P., 2018, *22nd International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2018.* Chemical and Biological Microsystems Society, p. 279-281 3 p. (22nd International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2018; vol. 1).

Suppression of acoustic streaming by the inhomogeneity-induced acoustic body force
Qiu, W., Karlsen, J., Bruus, H. & Augustsson, P., 2018, In: Proceedings of Meetings on Acoustics. 34, 1, 045023.

Clinical-Scale Cell-Surface-Marker Independent Acoustic Microfluidic Enrichment of Tumor Cells from Blood
Magnusson, C., Augustsson, P., Lenshof, A., Ceder, Y., Laurell, T. & Lilja, H., 2017 Nov 21, In: Analytical Chemistry. 89, 22, p. 11954-11961 8 p.

Shaping acoustofluidic landscapes to profile and separate cells and sub-micron particles
Augustsson, P., 2017 Oct 31, *2017 IEEE International Ultrasonics Symposium, IUS 2017.* IEEE Computer Society, 8091549

Acoustic Force Density Acting on Inhomogeneous Fluids in Acoustic Fields
Karlsen, J. T., Augustsson, P. & Bruus, H., 2016 Sept 9, In: Physical Review Letters. 117, 11, p. 114504 6 p.

Iso-acoustic focusing of cells for size-insensitive acousto-mechanical phenotyping
Augustsson, P., Karlsen, J. T., Su, H.-W., Bruus, H. & Voldman, J., 2016 May 16, In: Nature Communications. 7, 11556.

Acoustophoresis in tumor cell enrichment
Augustsson, P., Magnusson, C., Lilja, H. & Laurell, T., 2016 Apr 4, *Circulating Tumor Cells: Isolation and Analysis.* John Wiley & Sons Inc., p. 227-248

Acoustophoretic manipulation of sub-micron objects enabled by density gradients
Augustsson, P., Karlsen, J. T. & Bruus, H., 2016, *20th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2016.* Chemical and Biological Microsystems Society, p. 158-159 2 p.

Label-free concentration of viable neurons, hESCs and cancer cells by means of acoustophoresis.
Castro Zalis, M., Reyes, J. F., Augustsson, P., Holmqvist, S., Roybon, L., Laurell, T. & Deierborg, T., 2016, In: Integrative Biology. 8, 3, p. 332-340 9 p.

Theory of the acoustic force density acting on inhomogeneous fluids
Karlsen, J. T., Augustsson, P. & Bruus, H., 2016, *20th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2016.* Chemical and Biological Microsystems Society, p. 721-722 2 p.

Twenty second acoustofluidic whole blood hematocrit assay
Petersson, K., Jakobsson, O., Ohlsson, P., Augustsson, P. & Laurell, T., 2016, *20th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2016.* Chemical and Biological Microsystems Society, p. 635-636 2 p.

Acoustofluidic, label-free separation and simultaneous concentration of rare tumor cells from white blood cells
Antfolk, M., Magnusson, C., Augustsson, P., Lilja, H. & Laurell, T., 2015, In: Analytical Chemistry. 87, 18, p. 9322-9328

Applications in continuous flow acoustophoresis
Lenshof, A., Augustsson, P. & Laurell, T., 2015, *Microscale Acoustophoresis.* Laurell, T. & Lenshof, A. (eds.). Royal Society of Chemistry, p. 148-188

A single inlet two-stage acoustophoresis chip enabling tumor cell enrichment from white blood cells
Antfolk, M., Antfolk, C., Lilja, H., Laurell, T. & Augustsson, P., 2015, In: Lab on a Chip. 15, 9, p. 2102-2109

Iso-acoustic focusing for size-insensitive cell separation based on acoustic properties
Augustsson, P. & Voldman, J., 2015, *MicroTAS 2015 - 19th International Conference on Miniaturized Systems for Chemistry and Life Sciences.* Chemical and Biological Microsystems Society, p. 14-16 3 p.

Acoustic radiation forces at liquid interfaces impact the performance of acoustophoresis.
Deshmukh, S., Brzozka, Z., Laurell, T. & Augustsson, P., 2014, In: Lab on a Chip. 14, 17, p. 3394-3400

Acoustophoresis for label-free separation and concentration of cancer cells
Antfolk, M., Augustsson, P., Magnusson, C., Lilja, H. & Laurell, T., 2014, *18th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2014.* Chemical and Biological Microsystems Society, p. 2508-2509 (18th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2014).

Focusing of sub-micrometer particles and bacteria enabled by two-dimensional acoustophoresis.
Antfolk, M., Muller, P. B., Augustsson, P., Bruus, H. & Laurell, T., 2014, In: Lab on a Chip. 14, 15, p. 2791-2799

Improved acoustophoretic circulating tumor cell (CTC) separation for low target cell numbers in clinical volumes
Lenshof, A., Magnusson, C., Augustsson, P., Haflidadottir, B., Lilja, H. & Laurell, T., 2014, *18th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2014.* Chemical and Biological Microsystems Society , p. 594-596 (18th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2014).

Acoustophoresis separation of bacteria from blood cells for rapid sepsis diagnostics
Ohlsson, P. D., Petersson, K., Augustsson, P. & Laurell, T., 2013, *17th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2013.* Chemical and Biological Microsystems Society, Vol. 2. p. 1320-1322 3 p.

Microchannel Acoustophoresis does not Impact Survival or Function of Microglia, Leukocytes or Tumor Cells.
Burguillos Garcia, M., Magnusson, C., Nordin, M., Lenshof, A., Augustsson, P., Hansson, M., Elmer, E., Lilja, H., Brundin, P., Laurell, T. & Deierborg, T., 2013, In: PLoS ONE. 8, 5, e64233.

Ultrasound-induced acoustophoretic motion of microparticles in three dimensions
Muller, P. B., Rossi, M., Marin, A. G., Barnkob, R., Augustsson, P., Laurell, T., Kaehler, C. J. & Bruus, H., 2013, In: Physical Review E (Statistical, Nonlinear, and Soft Matter Physics). 88, 2, 023006.

Acoustic radiation- and streaming-induced microparticle velocities determined by microparticle image velocimetry in an ultrasound symmetry plane
Barnkob, R., Augustsson, P., Laurell, T. & Bruus, H., 2012, In: Physical Review E (Statistical, Nonlinear, and Soft Matter Physics). 86, 5, 056307.

Acoustofluidics 11: Affinity specific extraction and sample decomplexing using continuous flow acoustophoresis.
Augustsson, P. & Laurell, T., 2012, In: Lab on a Chip. 12, 10, p. 1742-1752

Acoustophoretic microfluidic chip for sequential elution of surface bound molecules from beads or cells
Augustsson, P., Malm, J. & Ekström, S., 2012, In: Biomicrofluidics. 6, 3, 034115.

Label-free somatic cell cytometry in raw milk using acoustophoresis.
Grenvall, C., Folkenberg, J. R., Augustsson, P. & Laurell, T., 2012, In: Cytometry Part A. 81A, 12, p. 1076-1083

Microfluidic, Label-Free Enrichment of Prostate Cancer Cells in Blood Based on Acoustophoresis
Augustsson, P., Magnusson, C., Nordin, M., Lilja, H. & Laurell, T., 2012, In: Analytical Chemistry. 84, 18, p. 7954-7962

Automated and temperature-controlled micro-PIV measurements enabling long-term-stable microchannel acoustophoresis characterization.
Augustsson, P., Barnkob, R., Wereley, S. T., Bruus, H. & Laurell, T., 2011, In: Lab on a Chip. 11, 24, p. 4152-4164

Measuring density and compressibility of white blood cells and prostate cancer cells by microchannel acoustophoresis
Barnkob, R., Augustsson, P., Magnusson, C., Lilja, H., Laurell, T. & Bruus, H., 2011, *15th International Conference on Miniaturized Systems for Chemistry and Life Sciences 2011, MicroTAS 2011.* p. 127-129 (15th International Conference on Miniaturized Systems for Chemistry and Life Sciences 2011, MicroTAS 2011; vol. 1).

On microchannel acoustophoresis - Experimental considerations and life science applications
Augustsson, P., 2011, 72 p.

Cell separation based on acoustophoresis and applications in health care
Lenshof, A., Petersson, F., Augustsson, P., Grenvall, C., Ekström, S., Persson, J., Swärd, A.-M., Åberg, L., Ohlin, M. & Laurell, T., 2010.

Extraction of circulating tumor cells from blood using acoustophoresis
Augustsson, P., Magnusson, C., Grenvall, C., Lilja, H. & Laurell, T., 2010, *14th International Conference on Miniaturized Systems for Chemistry and Life Sciences 2010, MicroTAS 2010.* p. 1592-1594 (14th International Conference on

Miniaturized Systems for Chemistry and Life Sciences 2010, MicroTAS 2010; vol. 3).

Measuring the local pressure amplitude in microchannel acoustophoresis
Barnkob, R., Augustsson, P., Laurell, T. & Bruus, H., 2010, In: Lab on a Chip. 10, 5, p. 563-570

Buffer medium exchange in continuous cell and particle streams using ultrasonic standing wave focusing
Augustsson, P., Åberg, L. B., Sward-Nilsson, A.-M. K. & Laurell, T., 2009, In: Microchimica Acta. 164, 3-4, p. 269-277

Decomplexing biofluids using microchip based acoustophoresis
Augustsson, P., Persson, J., Ekström, S., Ohlin, M. & Laurell, T., 2009, In: Lab on a Chip. 9, 6, p. 810-818

Harmonic microchip acoustophoresis: a route to online raw milk sample precondition in protein and lipid content quality control
Grenvall, C., Augustsson, P., Folkenberg, J. R. & Laurell, T., 2009, In: Analytical Chemistry. 81, 15, p. 6195-6200

Acoustic microfluidic chip technology to facilitate automation of phage display selection
Persson, J., Augustsson, P., Laurell, T. & Ohlin, M., 2008, In: The FEBS Journal. 275, 22, p. 5657-5666

Decomplexing biofluids using microchip based acoustophoresis
Augustsson, P., Persson, J., Ekström, S., Ohlin, M. & Laurell, T., 2008.

On chip affinity selection of antibodies using ultrasonic standing waves
Augustsson, P., Persson, J., Ohlin, M. & Laurell, T., 2008.

Fluorescent Activated Cell Sorter using Ultrasound Standing Waves in Micro Channels
Grenvall, C., Carlsson, M., Augustsson, P., Petersson, F. & Laurell, T., 2007, *Micro Total Analysis Systems 2007. Proceedings of μTAS 2007. 11th International Conference on Miniaturized Systems for Chemistry and Life Sciences.* Viovy, J.-L., Tabeling, P., Descroix, S. & Malaquin, L. (eds.). Chemical and Biological Microsystems Society, Vol. 2. p. 1813-1815 3 p.

On-chip affinity selection of antibodies using ultrasonic standing waves.
Augustsson, P., Persson, J., Ohlin, M. & Laurell, T., 2007, *Micro Total Analysis Systems 2007. Proceedings of μTAS 2007. 11th International Conference on Miniaturized Systems for Chemistry and Life Sciences.* Viovy, J.-L., Tabeling, P., Descroix, S. & Malaquin, L. (eds.). Chemical and Biological Microsystems Society, Vol. 2. p. 1810-1812

Ultrahydrophobic properties of porous silicon for surface based bioanalysis
Ressine, A., Augustsson, P., Marko-Varga, G. & Laurell, T., 2007, *Micro Total Analysis Systems 2007, Proceedings of μTAS 2007 Conference.* Jean-Louis, V., Tabeling, P., Descroix, S. & Malaquin, L. (eds.). Chemical and Biological Microsystems Society, Vol. 2. p. 1046-1047 3 p.

Improved Carrier Medium Exchange Efficiency in Acoustic Standing Wave Particle Washing
Augustsson, P., Petersson, F. & Laurell, T., 2006, *Micro Total Analysis Systems 2006, Proceedings of μTAS 2006 Conference.* Kitamori, T., Fujita, H. & Hasebe, S. (eds.). Society for Chemistry and Micro-Nano Systems, Vol. 1. p. 627-629 3 p.

Separation of escherichia coli bactreria from raw milk using resonant ultrasound in a microfluidic channel
Augustsson, P., Matsuoka, H. & Laurell, T., 2006.

Prizes and Distinctions

Ingvar Carlsson Award 2017
Augustsson, P. (Recipient), 2017 Apr 10

PhD-thesis of the year 2011 at the Faculty of Engineering at Lund University
Augustsson, P. (Recipient), 2012 May 23

The Phabian Award 20013
Augustsson, P. (Recipient), 2014 Feb 11

Awards

HUMPH: High-power ultrasound for multiparameter single- cell mechano- phenotyping
Augustsson, P. (PI)
European Commission - Horizon Europe: SEK28,477,000.00
2025/08/01 → 2030/07/31