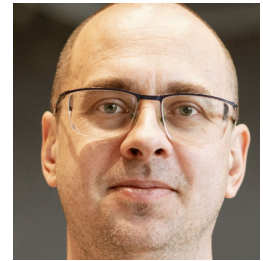


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Forskning

My lab is using a combination of microbiological, biochemical, next-generation sequencing and structural (cryo-EM) approaches to tackle two research directions:

- Molecular mechanisms of bacterial defence against phages
- Protein synthesis on the ribosome: antibiotics, antibiotic resistance, stress sensing and signalling, protein quality control

Kvalifikationer

Biologi med inriktning mot molekylärbiologi, Doktorsexamen
2002 → 2008

Kemi, Masterexamen
1997 → 2002

... → 2015 Docent i Microbiologi

Anställning

Forskargruppschef, Universitetslektor

Molekylär enzymologi
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Profilområdesmedlem

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Forskare

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Forskningsledare vid Laboratoriet för molekylär infektionsmedicin Sverige (MIMS)

Umeå University

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Forskare

University of Tartu

Tartu, Estland

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Forskningsoutput

Cyanobacterial Argonautes and Cas4 family nucleases cooperate to interfere with invading DNA

Bobadilla Ugarte, P., Halter, S., Mutte, S. K., Heijstek, C., Niault, T., Terenin, I., Barendse, P., Koopal, B., Roosjen, M., Boeren, S., Hauryliuk, V., Jinek, M., Westphal, A. H. & Swarts, D. C., 2025 apr. 26, (E-pub ahead of print) I: Molecular Cell.

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Forskningsmedel

En dubbel träff: ribosomalt skydd genom rRNA-metylering och antibiotikaavlägsnande

Hauryliuk, V. (PI)

Swedish Research Council: 3 600 000,00 kr

2024/12/01 → 2028/12/31

Projekt

Decoding bacterial toxin-antitoxin systems: from high-throughput discovery to molecular mechanism and biotechnology

Atkinson, G. (PI), Hauryliuk, V. (Forskare) & Schüler, H. (Forskare)

Knut and Alice Wallenberg Foundation

2021/07/01 → 2026/06/30

En dubbel träff: ribosomalt skydd genom rRNA-metylering och antibiotikaavlägsnande

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eSSENCE@LU 10:2 - "New sequence- and structure-based computational methods to find functional domains of proteins

Atkinson, G. (PI), Egorov, A. (Forskarstuderande), Hauryliuk, V. (Forskare), Bernheim, A. (Forskare), Schwede, T.

(Forskare) & Pereira, J. (Forskare)

2024/01/01 → 2025/12/31

Experimental exploration of bacterial toxin-antitoxin systems

Shyrokov, O. (Forskare), Hauryliuk, V. (Handledare) & Giske, C. (Biträdande handledare)

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