



Lars Regestein

[Bio Pilot Plant · Research Group Leader HoWi](#) [Bio Pilot Plant · Deputy head of Department](#)
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Curriculum vitae

Main Research Areas

- Development and characterization of online measurement techniques
- Viscous biological systems
- Mixed culture processes

Professional Career

Since 12/2017	Deputy Department Head of Bio Pilot Plant, HKI
2015 - 2017	Group Leader, AVT Biochemical Engineering, RWTH Aachen University
2014 – 2015	Research Professor at Western University, London, Ontario, Kanada
2012 - 2014	Group Leader , AVT Biochemical Engineering, RWTH Aachen University
2007 – 2011	PhD Studies, RWTH Aachen University
2000 – 2007	Diploma Studies in Process Technology, TU Dresden

Awards · Appointments · Scientific Activities

2014 - 2015	Theodore von Kármán Fellowship (RWTH Aachen University)
2014 - 2015	Western Fellowship (Western University, London, Ontario)
Since 2017	Membership Zukunftsforum Biotechnologie (DECHEMA)
Since 2014	Membership BioFuelNet Canada
Since 2007	Membership Bioverfahrenstechnik Dresden e. V.

Topics

[Bioprocess development](#)

[Bioprocess intensification](#)

[TandemFerm](#)

[UPLIFT](#)

[Bioprocess development: HoWi](#)

[Bioprocess development: Druka](#)

Publications

Schlembach I, Bardl B, Regestein L, Rosenbaum MA (2024) Nonengineered fungus provides a shortcut from cellulose to bulk *Erythro*-isocitric acid. *ACS Sustainable Chem Eng* 12(9), 3408-3418.

[Details](#)



Tiso T, Demling P, Karmainski T, Oraby A, Eiken J, Liu L, Bongartz P, Wessling M, Desmond P, Schmitz S, Weiser S, Emde F, Czech H, Merz J, Zibek S, Blank LM, Regestein L (2024) Foam control in biotechnological processes—challenges and opportunities. *Discov Chem Eng* 4(2),

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Götze S, Vij R, Burow K, Thome N, Urvat L, Schlosser N, Pflanze S, Müller R, Hänsch VG, Schlabach K, Fazlikhani L, Walther G, Dahse HM, Regestein L, Brunke S, Hube B, Hertweck C, Franken P, Stallforth P (2023) Ecological niche-inspired genome mining leads to the discovery of crop-protecting nonribosomal lipopeptides featuring a transient amino acid building block. *J Am Chem Soc* 145(4), 2342-2353.

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Peng CC, Dormanns N, Regestein L, Beemelmans C (2023) Isolation of sulfonosphingolipids from the rosette-inducing bacterium *Zobellia uliginosa* and evaluation of their rosette-inducing activity. *RSC Adv* 13(39), 27520-27524.

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Pflanze S, Mukherji R, Ibrahim A, Günther M, Götze S, Chowdhury S, Reimer L, Regestein L, Stallforth P (2023) Nonribosomal peptides protect *Pseudomonas nunensis* 4A2e from amoebal and nematodal predation. *Chem Sci* 14(41), 11573-11581.

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Günther M^{*}, Reimer C^{*}, Herbst R^{*}, Kufs JE, Rautschek J, Ueberschaar N, Zhang S, Peschel G, Reimer L, Regestein L, Valiante V, Hillmann F[#], Stallforth P[#] (2022) Yellow polyketide pigment suppresses premature hatching in social amoeba. *Proc Natl Acad Sci U S A* 119(43), e2116122119.

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Kufs JE, Reimer C, Stallforth P, Hillmann F, Regestein L^{*} (2022) The potential of amoeba-based processes for natural product syntheses. *Curr Opin Biotechnol* 77, 102766. (Review)

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Kufs JE, Reimer C, Steyer E, Valiante V, Hillmann F, Regestein L (2022) Scale-up of an amoeba-based process for the production of the cannabinoid precursor olivetolic acid. *Microb Cell Fact* 21(1), 217.

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Reimer C^{*}, Kufs JE^{*}, Rautschek J, Regestein L, Valiante V[#], Hillmann F[#] (2022) Engineering the amoeba *Dictyostelium discoideum* for biosynthesis of a cannabinoid precursor and other polyketides. *Nat Biotechnol* 40(5), 751-758.

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Stein J, Schlosser N, Bardl B, Peschel G, Meyer F, Kloss F, Rosenbaum MA, Regestein L (2022) Scalable downstream method for the cyclic lipopeptide jagaricin. *Eng Life Sci* 22(12), 811-817.

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- [3](#)
- [4](#)
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Teachings

[Lecture Bioverfahrensentwicklung Dr. Lars Regestein](#) [Details](#)

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News

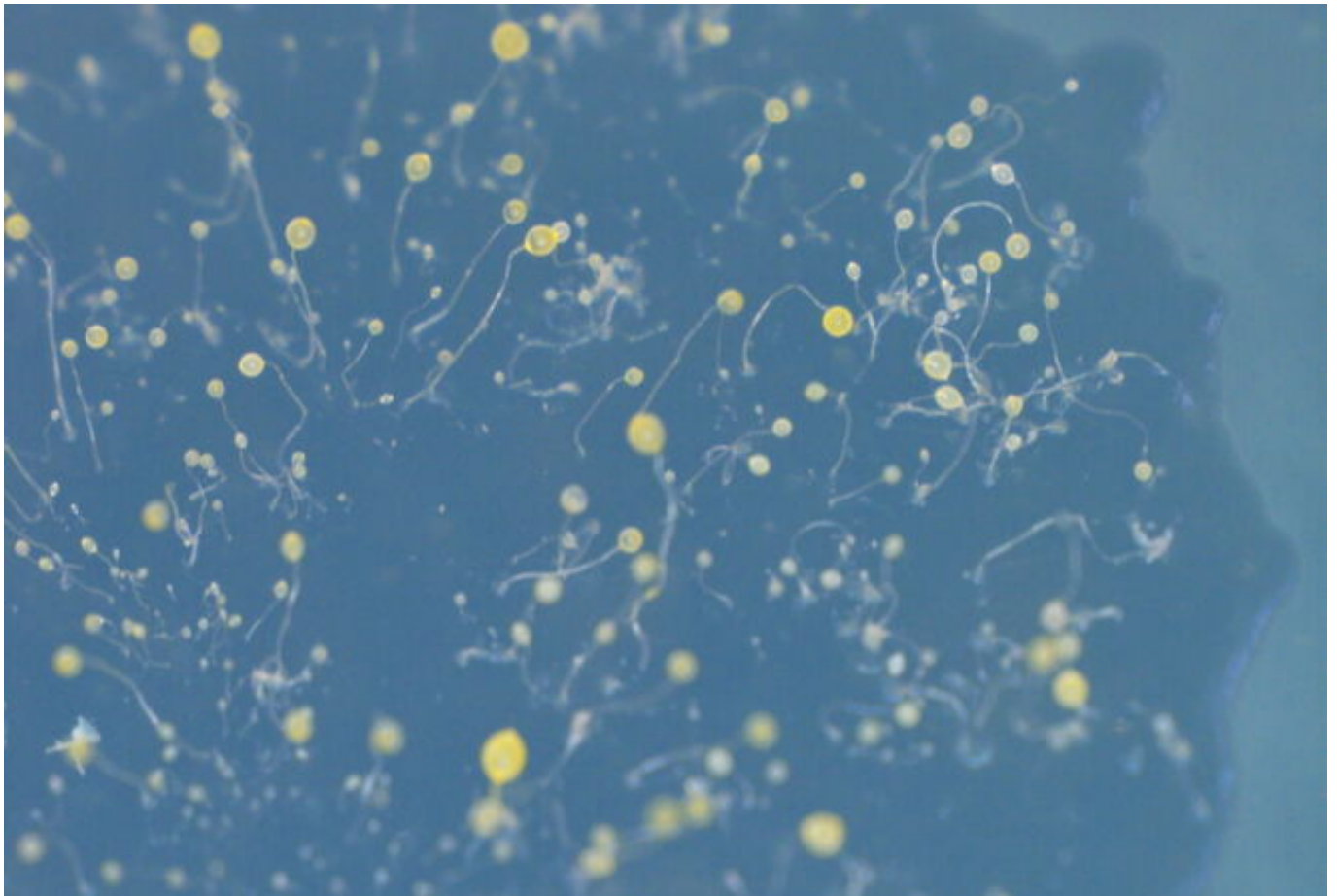
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[DECHEMA awards Lars Regestein the "Hochschullehrer-Nachwuchspreis"](#) During the spring meeting of the DECHEMA BioTechNet and the Fachgemeinschaftstag Bildung und Innovation, DECHEMA awarded its Hochschullehrer-Nachwuchs... 03/15/2022 [Read more](#)



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