

## Dr. Janine Kirstein



**Name:** Kirstein, Janine  
**Academic title:** Prof. Dr. rer. nat.  
**Date of birth:** 11 October 1978  
**Sex:** female

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**Current position:** Professor (W2) for Cell Biology

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**Children:** one, age 3 y.o.

### Academic education

1998-2003 University studies at the University of Greifswald: Biology (Diploma)

### Academic degrees

09/2007 Ph.D. (Dr. rer. nat.) *summa cum laude*

2003 – 2007 Ph.D. studies at ZMBH Heidelberg and Freie Universität Berlin

### Professional experience

10/2021 – Project Leader of DFG Research Unit FOR5228

08/2019 – Professor (W2) for Cell Biology, Universität Bremen

01/2016 – 2019 Project Leader of DFG Priority Program SPP1623

2015 – 2018 Project Leader of DFG Collaborative Research Consortium SFB740

2013-2017 Project Leader of NeuroCure Excellence Cluster

09/2013 – 07/2019 Junior Research Group Leader at Leibniz Research Institute for Molecular Pharmacology (FMP), Berlin

06/2009 – 08/2013 Lecturer at Northwestern University, Chicago, IL, USA

02/2008 – 08/2013 Postdoctoral Fellow at Northwestern University, Evanston, IL, USA

10/2007 – 02/2008 Postdoctoral Fellow at Freie Universität Berlin, Germany

### Awards

2018, 2016 + 2015 NeuroCure Innovation Award

2014 – 2015 Schering Stiftung: Young Leaders of Science Program

2012 HHMI Mentoring Stipend

2008 – 2011 HFSP Postdoc Stipend

2008 DFG Postdoc Stipend, declined

2008 EMBO Postdoc Stipend, declined

2008 Böhringer Ingelheim Travel Award

2008 PhD Award of VAAM (Vereinigung für Allgemeine und Angewandte Mikrobiologie)

2007 EMBO Short-term Fellowship

2000-2003 Stipend of the Studienstiftung des deutschen Volkes

### Other academic functions

2021 – Vice Dean of Faculty of Chemistry and Biology of Universität Bremen

2019 –	Coordinator of MSc program Biochemistry and Molecular Biology, Universität Bremen
2019 –	Commissioner for Transfer of Faculty of Biology & Chemistry, Universität Bremen
2019 –	Committee member for the selection of awardees of the Studienstiftung des deutschen Volkes
2016	Co-Organization of the 2 <sup>nd</sup> European Worm Meeting, Berlin
2015	Co-Organization of EU-COST GENiE Conference, Istanbul, Turkey
2014	Co-Organization of the 1 <sup>st</sup> European Worm Meeting, Berlin
Editorial board:	Frontiers in Molecular Biosciences
Reviewer for:	ERC, DFG, ANR, BMBF, NatComm, NatChemBiol, EMBO J, EMBO Rep, Cell Rep, JBC, PLoS Genetics, JCB

## Publications

### a) 10 selected Reviewed publications

- 1) Gallrein C, Iburg M, Michelberger T, Koçak A, Puchkov D, Liu F, Ayala Mariscal SM, Nayak T, Kaminski Schierle GS & **Kirstein J** (2020) Novel Amyloid-beta pathology *C. elegans* model reveals distinct neurons as seeds of pathogenicity. Progress in Neurobiology, Sep 11:101907.
- 2) Iburg M, Puchkov D, Rosas-Brugada IU, Bergemann L, Rieprecht U, **Kirstein J**. (2020) The non-canonical small heat shock protein HSP-17 from *C. elegans* is a selective protein aggregase. J Biol Chem doi: 10.1074/jbc.RA119.011185
- 3) Feleciano DR, Juenemann K, Iburg M, Bras I, Holmberg CI, **Kirstein J** (2019) Crosstalk between chaperone-mediated protein disaggregation and proteolytic pathways in aging and disease. Frontiers in Aging Neuroscience, Jan 29;11:9
- 4) Kreis P\*, Gallrein C, Rojas-Puente E, Mack TGA, Kroon C, Dinkel V, Willmes C, Murk K, tom-Dieck S, Schuman EM, **Kirstein J\***, Eickholt BJ\* (2019) ATM phosphorylation of the actin-binding protein drebrin controls oxidation stress-resistance and lifespan. Nature Communications, 10(1):486 \* **co-corresponding authors**
- 5) Scior, A., Arnsburg, K., Iburg, M., Juenemann, K., Mlody, B., Pigazzini, M.L., Buntru, A., Puchkov, D., Wanker, E.E., Prigione, A., Priller, J. & **Kirstein, J.** (2018) Complete suppression of Htt aggregation and disaggregation of Htt fibrils by a specific trimeric chaperone complex. EMBO J 37:282-299.
- 6) **Kirstein, J.**, Arnsburg, K., Scior, A., Szlachcic, A., Guilbride, D.L., Morimoto, R.I., Bukau, B., Nillegoda, N.B. (2017) In vivo properties of the disaggregase function of J-proteins and Hsc70 in *C. elegans* stress and aging. Aging Cell 16:1414-1424.
- 7) Nillegoda, N.B., **Kirstein, J.**, Szlachcic, A., Berynsky, M., Stank, A., Stengel, F., Arnsburg, K., Gao, X., Scior, A., Aebersold, R., Guilbride, D.L., Wade, R.C., Morimoto, R.I., Mayer, M.P., Bukau, B. (2015) Crucial HSP70 co-chaperone complex unlocks metazoan protein disaggregation. Nature 524(7564).
- 8) Ast, A., Buntru, A., Schindler, F., Hasenkopf, R., Schulz, A., Brusendorf, L., Klockmeier, K., Grelle, G., McMahon, B., Niederlechner, H., Jansen, I., Diez, L.M., Boeddrich, A., Franklin, S.A., Baldo, B., Schnoegl, S., Kunz, S., Purfürst, B., Kampinga, H.H., Morton, A.J., Petersén, A., **Kirstein, J.**, Bates, G.P., Wanker, E.E. (2018) Mutant HTT seeding activity: a marker of disease progression and neurotoxicity in models of Huntington's disease. Mol Cell 71(5):676-688
- 9) **Kirstein, J.\***, Morito, D., Kakihana, T., Sugihara, M., Minnen, A., Hipp, M.S., Nussbaum-Krammer, C., Hartl, F.U.\*, Nagata, K.\*, Morimoto, R.I.\* (2015) Proteotoxic stress and ageing triggers the loss of redox homeostasis across cellular compartments. EMBO J 34(18). \***co-corresponding authors**
- 10) **Kirstein-Miles, J.**, Scior, A., Deuerling, E., Morimoto, R.I. (2013) The nascent polypeptide-associated complex is a key regulator of proteostasis. EMBO J 32(10).

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