

Keiryn L. Bennett CV

Personal Data

Date of Birth: 1 July 1968
Place of Birth: Sydney, Australia
Nationality: Australian

Education

1993-1996 Ph.D. in Chemistry, University of Wollongong, Australia
1989-1992 B.Sc. (1st class Hons.) in Biochemistry, University of Tasmania, Australia

Career History

2009-present Head of Mass Spectrometry & Proteomics, CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences, Vienna, Austria
2004-2008 Scientist, CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences, Vienna, Austria
2003-2004 Director of Analytical Applications, MDS Inc., Odense, Denmark
2000-2003 Head of Analytical Applications, MDS Proteomics A/S, Odense, Denmark
2000 Research Scientist, Protana A/S, Odense, Denmark
1997-1999 Post-doctoral Fellow, University of Southern Denmark, Odense, Denmark
1996-1997 Post-doctoral Fellow, Macquarie University, Sydney, Australia

Awards (5 most important)

1990 Dean's Honour roll, University of Tasmania, Australia
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Invitations to present at conferences (5 most important)

8th European summer school – FEBS Advanced Lecture Course: High Performance Proteomics 2014, Brixen, South Tyrol, Italy; EMBO | FEBS Lecture Course on Nuclear Proteomics 2014, Kos Island, Greece; Late Summer Practical Proteomics Seminar 2012, IMP/IMBA, Vienna, Austria; 9th Annual Lorne Proteomics Symposium 2004, Lorne, Victoria, Australia; 18th Australian and New Zealand Society for Mass Spectrometry 2001, Surfers Paradise, Queensland, Australia.

Peer review activities, editorships, and/or memberships in academic organizations (5 most important)

Associate Editor Journal of Integrated OMICS, Section Editor Amino Acids; member American Society for Mass Spectrometry (ASMS), member Association of Biomolecular

Resource Facilities Protein Research Group (ABRF-PRG); Austrian Proteomic Association (AuPA) secretary

Peer-reviewed and funded research projects (5 most important as responsible PI)

co-PI: Regulation of innate immunity by DEAD box RNA helicase DDX3X, FWF, 2012-2015, €448,700.-; co-PI: Proteomic analysis of skin suction blister fluid from healthy human skin, National Bank, 2011, €57,000.-

Key international cooperation partners (last 5 years)

Albert J.R. Heck, Utrecht University, Utrecht, The Netherlands; Forest White, M.I.T., Boston, MA, USA; Jarrod Marto, Dana Farber Cancer Center, Boston, MA, USA; Eric Haura, H. Lee Moffit Cancer Center, Tampa, FL, USA; Daniel Kolarich, Max Planck Institute for Colloids and Interfaces, Berlin, Germany

10 most important scientific publications

Herdy B, Karonitsch T, Vladimer GI, Tan CS, Stukalov A, Trefzer C, Bigenzahn JW, Theil T, Holinka J, Kiener HP, Colinge J, **Bennett KL**, Superti-Furga G. The RNA-binding protein HuR/ELAVL1 regulates IFN- β mRNA abundance and the type I IFN response. *Eur J Immunol.* 2015 May;45(5):1500-11. doi: 10.1002/eji.201444979.

Boucheron N, Tschismarov R, Göschl L, Moser MA, Lagger S, Sakaguchi S, Winter M, Lenz F, Vitko D, Breitwieser FP, Müller L, Hassan H, **Bennett KL**, Colinge J, Schreiner W, Egawa T, Taniuchi I, Matthias P, Seiser C, Ellmeier W. CD4(+) T cell lineage integrity is controlled by the histone deacetylases HDAC1 and HDAC2. *Nat Immunol.* 2014 May;15(5):439-48. doi: 10.1038/ni.2864. Epub 2014 Mar 30. Erratum in: *Nat Immunol.* 2014 Sep;15(9):894.

Varjosalo M, Sacco R, Stukalov A, van Drogen A, Planyavsky M, Hauri S, Aebersold R, **Bennett KL**, Colinge J, Gstaiger M, Superti-Furga G. Interlaboratory reproducibility of large-scale human protein-complex analysis by standardized AP-MS. *Nat Methods.* 2013 Apr;10(4):307-14. doi: 10.1038/nmeth.2400.

Rudashevskaya EL, Sacco R, Kratochwill K, Huber ML, Gstaiger M, Superti-Furga G, **Bennett KL**. A method to resolve the composition of heterogeneous affinity-purified protein complexes assembled around a common protein by chemical cross-linking, gel electrophoresis and mass spectrometry. *Nat Protoc.* 2013 Jan;8(1):75-97. doi: 10.1038/nprot.2012.133.

Pichlmair A, Kandasamy K, Alvisi G, Mulhern O, Sacco R, Habjan M, Binder M, Stefanovic A, Eberle CA, Goncalves A, Bürckstümmer T, Müller AC, Fauster A, Holze C, Lindsten K, Goodbourn S, Kochs G, Weber F, Bartenschlager R, Bowie AG, **Bennett KL**, Colinge J, Superti-Furga G. Viral immune modulators perturb the human molecular network by

common and unique strategies. *Nature*. 2012 Jul 26;487(7408):486-90. doi: 10.1038/nature11289.

Pichlmair A, Lassnig C, Eberle CA, Gónna MW, Baumann CL, Burkard TR, Bürckstümmer T, Stefanovic A, Krieger S, **Bennett KL**, Rüllicke T, Weber F, Colinge J, Müller M, Superti-Furga G. IFIT1 is an antiviral protein that recognizes 5'-triphosphate RNA. *Nat Immunol*. 2011 Jun 5;12(7):624-30. doi: 10.1038/ni.2048.

Weismann D, Hartvigsen K, Lauer N, **Bennett KL**, Scholl HP, Charbel Issa P, Cano M, Brandstätter H, Tsimikas S, Skerka C, Superti-Furga G, Handa JT, Zipfel PF, Witztum JL, Binder CJ. Complement factor H binds malondialdehyde epitopes and protects from oxidative stress. *Nature*. 2011 Oct 5;478(7367):76-81. doi: 10.1038/nature10449.

Bürckstümmer T, Baumann C, Blüml S, Dixit E, Dürnberger G, Jahn H, Planyavsky M, Bilban M, Colinge J, **Bennett KL**, Superti-Furga G. An orthogonal proteomic-genomic screen identifies AIM2 as a cytoplasmic DNA sensor for the inflammasome. *Nat Immunol*. 2009 Mar;10(3):266-72. doi: 10.1038/ni.1702.

Bürckstümmer T, **Bennett KL**, Preradovic A, Schütze G, Hantschel O, Superti-Furga G, Bauch A. An efficient tandem affinity purification procedure for interaction proteomics in mammalian cells. *Nat Methods*. 2006 Dec;3(12):1013-9.

Ho Y, Gruhler A, Heilbut A, Bader GD, Moore L, Adams SL, Millar A, Taylor P, **Bennett K**, Boutilier K, Yang L, Wolting C, Donaldson I, Schandorff S, Shewnarane J, Vo M, Taggart J, Goudreault M, Muskat B, Alfarano C, Dewar D, Lin Z, Michalickova K, Willems AR, Sassi H, Nielsen PA, Rasmussen KJ, Andersen JR, Johansen LE, Hansen LH, Jespersen H, Podtelejnikov A, Nielsen E, Crawford J, Poulsen V, Sørensen BD, Matthiesen J, Hendrickson RC, Gleeson F, Pawson T, Moran MF, Durocher D, Mann M, Hogue CW, Figgeys D, Tyers M. Systematic identification of protein complexes in *Saccharomyces cerevisiae* by mass spectrometry. *Nature*. 2002 Jan 10;415(6868):180-3.