Justin Flatt
Macromolecular structure and function

Qualifications

Molecular Physiology and Biophysics, PhD, Structural insights into recognition of adenoviruses by immunologic and serum factors, Case Western Reserve University
1 Oct 2011 → 13 Dec 2013
Award Date: 13 Dec 2013

Molecular Physiology and Biophysics, PhD student, Structural insights into recognition of adenoviruses by immunologic and serum factors, Vanderbilt University
1 Jun 2009 → 30 Sept 2011

Biology , BSc, Characterization of an E2 ubiquitin conjugating enzyme, Univeristy of Alabama Huntsville
16 Aug 2004 → 2 May 2009

Employment

Macromolecular structure and function
University of Helsinki
Finland
1 May 2017 → present

EMBO/HFSP Postdoctoral Fellow
University of Zurich
Zurich, Switzerland
1 Apr 2014 → 30 Apr 2017

Graduate Researcher
Case Western Reserve University
Cleveland, United States
1 Oct 2011 → 13 Dec 2013

Graduate Researcher
Vanderbilt University
Nashville, Tennessee, United States
1 Jun 2009 → 30 Sept 2011

Undergraduate Researcher
Univeristy of Alabama Huntsville
Huntsville, United States
1 May 2008 → 31 Jul 2008

Research output

Identification of a conserved virion-stabilizing network inside the interprotomer pocket of enteroviruses
Flatt, J., Domanska, A., Seppälä, A. L. & Butcher, S., 26 Feb 2021, In: Communications Biology. 4, 8 p., 250.

Tracking self-citations in academic publishing
Kacem, A., Flatt, J. W. & Mayr, P., May 2020, In: Scientometrics. 123, 2, p. 1157–1165 9 p.

The E3 Ubiquitin Ligase Mind Bomb 1 Controls Adenovirus Genome Release at the Nuclear Pore Complex
Bauer, M., Flatt, J. W., Seiler, D., Cardel, B., Emmenlauer, M., Boucke, K., Suomalainen, M., Hemmi, S. & Greber, U. F., 17 Dec 2019, In: Cell Reports. 29, 12, p. 3785-3795.e8 19 p.

Pool-seq driven proteogenomic database for Group G Streptococcus
Weldatsadik, R. G., Datta, N., Kolmeder, C., Vuopio, J., Kere, J., Wilkman, S. V., Flatt, J. W., Vuento, R., Haapasalo, K. J. , Keskitalo, S., Varjosalo, M. & Jokiranta, T. S., 15 Jun 2019, In: Journal of Proteomics. 201, p. 84-92 9 p.

A novel druggable interprotomer pocket in the capsid of rhino- and enteroviruses
Abdelnabi, R., Geraets, J. A., Ma, Y., Mirabelli, C., Flatt, J. W., Domanska, A., Delang, L., Jochmans, D., Kumar, T. A., Jayaprakash, V., Sinha, B. N., Leyssen, P., Butcher, S. J. & Neyts, J., Jun 2019, In: PLoS Biology. 17, 6, 17 p., 3000281.

A 2.8-Angstrom-Resolution Cryo-Electron Microscopy Structure of Human Parechovirus 3 in Complex with Fab from a Neutralizing Antibody
Domanska, A., Flatt, J. W., Jukonen, J., Geraets, J. & Butcher, S. J., Feb 2019, In: Journal of Virology. 93, 4, 12 p., e01597-18.

Adenovirus flow in host cell networks
Flatt, J. W. & Butcher, S. J., Feb 2019, In: Open biology. 9, 2, 11 p., 190012.

Adenovirus Entry: From Infection to Immunity
Greber, U. F. & Flatt, J. W., 2019, *ANNUAL REVIEW OF VIROLOGY, VOL 6, 2019.* Enquist, L., DiMaio, D. & Demody, T. (eds.). Annual Reviews, Vol. 6. p. 177-197 21 p. (Annual Review of Virology; vol. 6).

Putting data before the carrot
Flatt, J. W., Blasimme, A. & Vayena, E., 25 Sept 2017, In: Elephant in the Lab blog.

The case for tracking self-citations
Flatt, J. W., 19 Sept 2017, In: Physics Today.

Small-size recombinant adenoviral hexon protein fragments for the production of virus-type specific antibodies
Pacesa, M., Hendrickx, R., Bieri, M., Flatt, J. W., Greber, U. F. & Hemmi, S., 18 Aug 2017, In: Virology Journal. 14, 14 p., 158.

Improving the Measurement of Scientific Success by Reporting a Self-citation Index
Flatt, J. W., Blasimme, A. & Vayena, E., 1 Aug 2017, In: Publications. 5, 3, 6 p., 20.

Viral mechanisms for docking and delivering at nuclear pore complexes
Flatt, J. W. & Greber, U. F., Aug 2017, In: Seminars in Cell and Developmental Biology. 68, p. 59-71 13 p.

Misdelivery at the Nuclear Pore Complex-Stopping a Virus Dead in Its Tracks
Flatt, J. W. & Greber, U. F., Sept 2015, In: Cells. 4, 3, p. 277-296 20 p.

Coagulation Factor Binding Orientation and Dimerization May Influence Infectivity of Adenovirus-Coagulation Factor Complexes
Irons, E. E., Flatt, J. W., Doronin, K., Fox, T. L., Acchione, M., Stewart, P. L. & Shayakhmetov, D. M., Sept 2013, In: Journal of Virology. 87, 17, p. 9610-9619 10 p.

An Intrinsically Disordered Region of the Adenovirus Capsid Is Implicated in Neutralization by Human Alpha Defensin 5
Flatt, J. W., Kim, R., Smith, J. G., Nemerow, G. R. & Stewart, P. L., 19 Apr 2013, In: PLoS One. 8, 4, 10 p., 61571.

CryoEM Visualization of an Adenovirus Capsid-Incorporated HIV Antigen
Flatt, J. W., Fox, T. L., Makarova, N., Blackwell, J. L., Dmitriev, I. P., Kashentseva, E. A., Curiel, D. T. & Stewart, P. L., 14 Nov 2012, In: PLoS One. 7, 11, 8 p., 49607.

Coagulation Factor X Activates Innate Immunity to Human Species C Adenovirus
Doronin, K., Flatt, J. W., Di Paolo, N. C., Khare, R., Kalyuzhniy, O., Acchione, M., Sumida, J. P., Ohto, U., Shimizu, T., Akashi-Takamura, S., Miyake, K., MacDonald, J. W., Bammler, T. K., Beyer, R. P., Farin, F. M., Stewart, P. L. & Shayakhmetov, D. M., 9 Nov 2012, In: Science. 338, 6108, p. 795-798 4 p.

The E2-25K ubiquitin-associated (UBA) domain aids in polyubiquitin chain synthesis and linkage specificity
Wilson, R. C., Edmondson, S. P., Flatt, J. W., Helms, K. & Twigg, P. D., 25 Feb 2011, In: Biochemical and Biophysical Research Communications. 405, 4, p. 662-666 5 p.

Structure of full-length ubiquitin-conjugating enzyme E2-25K (huntingtin-interacting protein 2)
Wilson, R. C., Hughes, R. C., Flatt, J. W., Meehan, E. J., Ng, J. D. & Twigg, P. D., May 2009, In: Acta crystallographica. Section F: Structural biology and crystallization communications . 65, p. 440-444 5 p.