

## ILEANA M. CRISTEA, Ph.D.

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Department of Molecular Biology  
Princeton University  
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### CURRENT POSITION

Professor, Department of Molecular Biology, Princeton University (since 2016)

Previous Positions:

- Associate Professor, Princeton University (2013 – 2016)
- Assistant Professor, Princeton University (2008 – 2013)

### EDUCATION

#### Postdoctoral Training

- With Brian Chait in the Laboratory of Mass Spectrometry and Gaseous Ion Chemistry at The Rockefeller University (2003-08)

#### Ph.D.

- Michael Barber Centre for Mass Spectrometry, UMIST (University of Manchester Institute of Science and Technology), UK, 2002  
Supervisors: Prof. Simon J. Gaskell, FRS (UMIST), Dr. Elisabeth George (GlaxoSmithKline)

#### M.Chem.

- Medicinal Chemistry, UMIST (University of Manchester Institute of Science and Technology), UK, 1999; Supervisor: Prof. Simon J. Gaskell, FRS

### HONORS & AWARDS

- |            |   |
|------------|---|
| 2015       | <b>Mallinckrodt Scholar Award</b>   |
| 2015       | <b>Senior Editor</b> , <i>mSystems</i> (ASM journal)  |
| 2015       | <b>Editor</b> , Special Issue on "Virology meets Proteomics" for the <i>Proteomics</i> journal                                    |
| 2015       | Re-elected to the <b>Board of Directors of the American Human Proteome Organization (US HUPO)</b> (Board member since 2012)       |
| 2015       | Keynote Lecturer, Inaugural Annual Retreat of the Department of Biological Chemistry, Johns Hopkins University School of Medicine |
| 2013       | <b>Molecular &amp; Cellular Proteomics Journal Lectureship</b>  |
| Since 2013 | <b>Senior Editor</b> , <i>Proteomics</i> journal  |
| Since 2013 | Elected to the <b>Executive Board of the American Human Proteome Organization</b> (Secretary of US-HUPO)                          |

- 2012 **American Society for Mass Spectrometry Research Award**
- Since 2012 **Chair, Infectious Disease Initiative**, World Human Proteome Organization (HUPO)
- 2012 **Early Career Award in Mass Spectrometry**, American Chemical Society (NJ Section)
- 2012 Elected to the **Board of Directors of the American Human Proteome Organization (US HUPO)**
- 2011 **Princeton University Intellectual Property Development Award**
- 2009 **Human Frontiers Science Program Young Investigator Grant**
- 2008 **NIDA Avant-Garde Award for HIV/AIDS Research (Director's Pioneer Award DP1)**  
*Proteomic tools to uncover the role of chromatin remodeling in HIV-1 infection*
- 2005 – 2006 **The Rockefeller University Women and Science Fellowship**  
*A Proteomics Approach for the Study of the Viral Interactome*
- 1999 – 2002 **GlaxoSmithKline Ph.D. Studentship, UK**  
*Proteome changes during early stages of cell injury*
- 1999 – 2002 **United Kingdom Governmental Award for Overseas Research Student, UK**
- 2002 **Photonics WEST – BIOS Scholarship, San Jose, CA, 2002**  
*Proteome changes during dedifferentiation of hepatocytes in primary cultures*
- 2001 **Bordoli Prize from the British Mass Spectrometry Society, UK**  
*Proteomics study of the dedifferentiation of hepatocytes in primary culture*
- 1999 **Esso (Exxon Mobil) Chemical Prize for best Master in Chemistry project, UK**  
*Characterization of proteins using Lys-C digestion, tandem mass spectrometry, and database searching*
- 1998 – 1999 **National Competition Award from the Ministry of National Education of Romania**
- 1998 – 1999 **Chemistry Department Scholarship, UMIST, Manchester, UK**  
Final year of Master in Chemistry
- 1998 – 1999 **International Office Scholarship, UMIST, Manchester, UK**  
Final year of Master in Chemistry
- 1997 - 1998 **TEMPUS (Trans-European mobility scheme for university studies) Joint European Project grants for research/practice stages at the Manchester Metropolitan University, Manchester, UK**
- 1997 **1<sup>st</sup> prize, Scientific Research Session of Physical Chemistry, Bucharest, Romania**  
*Adsorption of toxins on medicinal coal in humans*

## PROFESSIONAL ACTIVITIES

- **Editorial Boards:**

- Senior Editor, *mSystems* (ASM journal) (2015-present)
- Editor of Special Issue on “*Viral Proteomics*” for the *Proteomics* journal (2015)

- Member, Editorial Board of the *Molecular & Cellular Proteomics* journal (2011-present)
- Senior Editor, *Proteomics* journal (Jan 2013-present)
- Member, Editorial Advisory Board of the *Journal of Proteome Research* (2014-present)
- Member, Editorial Board of the *Journal of Neuroimmune Pharmacology* (2011-present)
- Associate Editor, The Rockefeller University *Natural Selections* journal (2003-2007)
- **Professional Committees:**
  - Chair, Infectious Disease Initiative of the World Human Proteome Organization (2014-present)
  - Chair, Education Committee of US-HUPO (2014-present)
  - Elected to the Executive Board of the American Human Proteome Organization (Secretary of US-HUPO; 2013-present)
  - Advisory Board Member for LLNL (Lawrence Livermore National Laboratory) for the Research Resource for Biomedical mass Spectrometry, Livermore, CA (2013 – present)
  - Consultant for CPRIT (Cancer Prevention and Research Institute of Texas) Cancer Proteomics and Metabolomics, Baylor College of Medicine, Houston, TX (2013 – present)
  - Elected Member, Board of Directors of the US-HUPO (Human Proteome Organization) (2012-present)
  - Member, Education Committee of the US-HUPO (Human Proteome Organization) (2011-present)
  - Member, Nominating Committee of US-HUPO (Human Proteome Organization) (2011-present)
  - Member, Education Committee of the American Society for Mass Spectrometry Society (2008-2010)
  - Co-organizer of the NIH Epigenetics, HIV/AIDS & Drug Abuse Workshop (Jan 2009)
  - Member, Program Review Committee of the American Society for Mass Spectrometry (ASMS) (2007)
  - The Rockefeller University Student and Postdoc Seminar Series Committee (2003-2007)
- **Conference Session Chair/Organizer:**
  - Chair and co-Organizer, Meeting of the “Infectious Disease Initiative” at world HUPO, Vancouver, October 2015
  - Chair, oral session “Pathogen Infections” at the US-HUPO (U.S.A. Human Proteome Organization) 11<sup>th</sup> Annual Conference, Tempe, Arizona, March 2015
  - Chair and Organizer, First Meeting of the “Infectious Disease Initiative”, HUPO, Madrid, October 2014
  - Chair, oral session “Proteomics of human microbiome and infectious diseases” at HUPO, Madrid, October 2014

- Chair, oral session “Mechanisms in Disease” at the US-HUPO (U.S.A. Human Proteome Organization) 10<sup>th</sup> Annual Conference, Seattle, April 2014
- Chair, oral session “An Integrated View of Cellular Signaling” at the Keystone Symposia, Omics Meets Cell Biology: Applications to Human health and Disease, February 2014, Taos, New Mexico
- Co-organizer, FASEB Conference on “Methods in Protein Structure Analysis 2014: Protein Interactions, Structures, Technologies and Networks”
- Co-Chair, “Microbes and Infectious Diseases: A World Unseen” oral session at the HUPO World Congress, 2012
- Co-Chair, “Protein Interaction” Panel Discussion Session at US-HUPO, 2011
- Chair, “MS in the Determination of Cellular Pathways” oral session at the annual American Society for Mass Spectrometry (ASMS) international conference, 2010
- Chair, oral session at the 9<sup>th</sup> International Symposium on MS in Health & Life Sciences, 2009
- Chair, “Mass Spectrometry and Cellular Pathways” oral session at the annual ASMS international conference, 2009
- Chair, “MS in the Determination of Cellular Pathways” oral session at the annual ASMS international conference, 2007
- **Reviewer for Scientific Journals:** Nature, Molecular Cell, Cell Host Microbe, Cell Reports, Molecular and Cellular Proteomics, Proc. Natl. Acad. USA, Journal of Proteome Research, Journal of Bacteriology, PLoS Pathogens, Journal of Virology, Journal of General Virology, PLoS One, Proteomics, Protein Science, Journal of the American Society for Mass Spectrometry, Rapid Communications in Mass Spectrometry, Cellular and Molecular Life Sciences.
- **Grant reviews:** I have acted as a reviewer on study sections of the National Institutes of Health (NIH), National Science Foundation (NSF), and other scientific organizations, as part of study sections that relate to proteomics, mass spectrometry, systems biology and virology. Selected review panels include:
  - 2015: NIH/VIRB – Review Panel Member for the Virology B study section
  - 2013: NIH/NIGMS – Review Panel Member for Macromolecular Interactions in Cells
  - 2013: Advisory Board Member for LLNL (Lawrence Livermore National Laboratory) for the Research Resource for Biomedical mass Spectrometry, Livermore, CA
  - 2013: Consultant for CPRIT (Cancer Prevention and Research Institute of Texas) Cancer Proteomics and Metabolomics Core Facilities, Baylor College of Medicine, Houston, TX
  - 2013: Mentoring Committee Member for Michelle Cilia, Boyce Thompson Institute for Plant Research, Cornell University
  - 2012: NIH/CSR – Review Panel for competitive renewal of the National Mass Spectrometry Resource at Boston University
  - 2009 – Present: Avant Garde Awards for HIV/AIDS
  - 2009 – 2011: NIH/NIDA – Systems Biology and HIV/AIDS
  - 2010-2011: NSF Career grant applications
  - 2010: NIH Recovery Act Competition: Research Infrastructure Grant Opportunities

- 2010: The Netherlands Organisation for Health Research and Development (ZonMw) for MS instrumentation

## PRINCETON UNIVERSITY AND DEPARTMENT SERVICE

- **Department of Molecular Biology Committees:**
  - 2013-Present: Chair, Graduate Admission Committee
  - 2014-Present: Chair, Technology Innovation Committee
  - 2014: Search Committee for new Director of Mass Spectrometry Facility
  - 2012-Present: Mentor, Proteomics Facility
  - 2012-Present: Member of the Graduate Committee
  - 2011-2012: Graduate Admissions Committee
  - 2008-Present: Member, Ph.D. Thesis Committees for graduate students at Princeton for the duration of their PhD studies (currently on 12 Ph.D. student committees)
  - 2008-2012: Member, MD/Ph.D. Admission Committee for Princeton University
  - 2008, 2009: Selection of the summer program undergraduate students for the Department of Molecular Biology
- **Selected Department and Princeton University Activities:**
  - 2013-2015: Member, Council for International Teaching and Research, Princeton University
  - 2013-2015: Member, Institutional Biosafety Committee (IBC)
  - Helped initiate collaborations with and funding from industry – seminars given at Princeton for the Accelerator Group (2015), Merck (2015), and Novartis (2014).
  - Helped initiate partnership with National Institute of Basic Biology (NIBB), Japan for exchange of postdoctoral researchers between Princeton and NIBB, 2014
  - 2014-present: Initiated monthly Joint Virology Group Meetings in the Department of Molecular Biology for the groups (alphabetical order) of Cristea, Enquist, Flint, Ploss, and Shenk.
  - 2014-present: Helped organize the interviews and the scientific program (talks) for the candidate graduate students for the Department of Molecular Biology
  - Established a Technology Alliance Partnership between Princeton University and Thermo Fisher Scientific, July 2012 (co-chaired with Josh Rabinowitz)
  - Department Representative, NIBB-Princeton inter-institutional collaboration, Japan, November 2011
  - Coordinator of the Molecular Biology Retreat, October 2010
  - Co-coordinator of the Molecular Biology Retreat, October 2009

## TEACHING

<b>Princeton University</b>	<b>MOL345 – Biochemistry (2016-Present)</b> Biochemistry for undergraduate students
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**MOL504 – Cellular Biochemistry (2009-Present)**

Fall term core course for graduate students (open also to senior undergraduates)

**MOL214 – Introduction to Cellular and Molecular Biology (2012, 2014)**

Teaching the “Proteomics in Health and Disease” Module

**MOL480 – Proteomics in Biological Sciences (2010 & 2011)**

Spring term course for senior and junior undergraduate students

**MOL328 – Medical Research and Researchers: Preeminence, Problems, Policies** course led by Adel Mahmoud and Leon Rosenberg; Invited lectures ('09, '10)

**Courses &  
Specialized  
Workshops****Instructor for Cold Spring Harbor Summer Proteomics Course (2006-Present)**

*Head Instructor* – since 2011

Invited Lecturer & Instructor: since 2006

Seminars and practical training on studying protein-protein interactions

Book Chapter - Purification of Protein Complexes for Mass Spectrometry Analysis; *Proteomics: A Cold Spring Harbor Laboratory Course Manual*, November 2009, ISBN 978-087969793-8

**Protein Interaction Course at US HUPO (U.S.A. Human Proteome Organization) Conference (2012 – Present)**

Course Coordinator and Instructor, March 2012, March 2013, April 2014 & March 2015

Course Title: “Stable and Transient Protein-Protein Interactions: Discovery, Quantification and Validation”

**ASV (American Society of Virology) Conference**

Chair, Career Symposium, July 2015

**NSF Workshop “Mass Spectrometry Data to Knowledge”, May 2015**

Invited Workshop Speaker, reviewing “Biological Questions Answered using MS data”

**Proteomics Symposium, Puerto Rico, December 2012**

Invited Lecturer for the Translational Proteomics Center

Workshop on protein interactions

**NIH, Innovation Brainstorm: Transforming Discovery into Impact**

One of 25 Selected Participants (invited by Francis Collins), May 2011

**ABRF International Symposium**

Invited Lecturer – “Protein Interaction” Workshop, February 2011

**HUPO (Human Proteome Organization) World Congress**

Invited Lecturer - “New Possibilities in Proteomics Quantification,” Geneva, 2011

**NIH, “Epigenetics, HIV/AIDS & Drug Abuse” Workshop**

Workshop Co-Coordinator, 2009

**AOHUPO, Cairns, Australia**

Invited Lecturer – “Tools in Biomarker Discovery” Workshop, State-of-the-Art technology lecture, June 2008

**Princeton University, Yeast Genetics and Molecular Biology Meeting**

Proteomics Workshop – invited lecturer (by Al Burlingame, UCSF), July 2006

**GlaxoSmithKline, Ware, UK**

Lecturer – Proteomics Workshop, Sept 1999

**Tutorial  
Leader****University of Manchester Institute of Science and Technology, UK (1999-2001)**Undergraduate tutorial leader for *Molecular Basis of Life* course**Student  
Assistant****University Politehnica of Bucharest (1996)**In the authoring team of the Romanian Unified *Physical-Chemistry Course* book, funded by the World Bank.**AFFILIATIONS**

American Society of Mass Spectrometry (ASMS), American Society for Biochemistry and Molecular Biology (ASBMB), American Society for Microbiology (ASM), American Society of Virology (ASV), Human Proteome Organization (HUPO), and American Human Proteome Organization (US-HUPO).

**PUBLICATIONS in peer reviewed journals**93. Carabetta VJ\*, Greco TM\*, Tanner AW, **Cristea IM**#, Dubnau D#

# - co-corresponding authors; \* - co-first authors

Temporal regulation of the *B. subtilis* acetylome and evidence for a role of MreB acetylation in cell wall growth*mSystems* (2016) 31 May; doi: 10.1128/mSystems.00005-1692. Luo Y, Jacobs EY, Greco TM, Mohammed KD, Tong T, Keegan S, Binley JM, **Cristea IM**, Fenyö D, Rout MP, Chait BT, Muesing MA

HIV–host interactome revealed directly from infected cells

*Nature Microbiology* (2016), May; doi:10.1038/nmicrobiol.2016.6891. Mathias RA, Greco TM, **Cristea IM**.

Identification of SIRT4 protein interactions: Uncovering candidate acyl-modified mitochondrial substrates and enzymatic regulators

*Methods in Molecular Biology* (2016), Special Issue on Histone Deacetylases and Sirtuins; 1436:213-39.90. Guise AJ, **Cristea IM**.

Approaches for studying the subcellular localization, interactions, and regulation of histone deacetylase 5 (HDAC5)

*Methods in Molecular Biology* (2016), Special Issue on Histone Deacetylases and Sirtuins; 1436:47-84

89. Waldron L, Steimle JD, Greco TM, Gomez NC, Dorr KM, Kweon J, Temple B, Yang XH, Wilczewski CM, Davis IJ, **Cristea IM**, Moskowitz IP, Conlon FL.

The Cardiac TBX5 Interactome Reveals a Chromatin Remodeling Network Essential for Cardiac Septation.

*Dev Cell.* (2016) Feb 8;36(3):262-75. doi: 10.1016/j.devcel.2016.01.009.

88. Song R, Koyuncu OO, Greco TM, Diner BA, **Cristea IM**, Enquist LW.

Two Modes of the Axonal Interferon Response Limit Alphaherpesvirus Neuroinvasion.

*MBio.* (2016) Feb 2;7(1). pii: e02145-15. doi: 10.1128/mBio.02145-15.

87. Giguère SS, Guise AJ, Jean Beltran PM, Joshi PM, Greco TM, Quach OL, Kong J, **Cristea IM**.

The proteomic profile of deleted in breast cancer 1 (DBC1) interactions points to a multifaceted regulation of gene expression.

*Mol Cell Proteomics.* (2015) Dec 9. pii: mcp.M115.054619.

86. Greco TM, Guise AJ, **Cristea IM**.

Determining the Composition and Stability of Protein Complexes using an Integrated Label-free and Stable Isotope Labeling Strategy

*Methods in Molecular Biology*, Special Issue on Quantitative Proteomics by Mass Spectrometry; (2016) 1410:39-63. doi: 10.1007/978-1-4939-3524-6\_3.

85. Lum KK, **Cristea IM**.

Proteomic approaches to uncovering virus-host protein interactions during the progression of viral infection

*Expert Review of Proteomics* (2016) Mar;13(3):325-40.

84. Greco TM, **Cristea IM**.

The Biochemical Evolution of Protein Complexes

*Trends in Biochemical Sciences* (2016) Jan;41(1):4-6. doi: 10.1016/j.tibs.2015.11.007.

83. Budayeva HG, Rowland EA, **Cristea IM**.

The intricate roles of mammalian sirtuins in defense against viral pathogens

*Journal of Virology* (2015) Oct 21. pii: JVI.03220-14

82. Diner BA, **Cristea IM**.

Blowing Off Steam: Virus Inhibition of cGAS DNA Sensing

*Cell Host Microbe* (2015) Sep 9;18(3):270-2. doi: 10.1016/j.chom.2015.08.012.

81. Diner BA, Lum KK, **Cristea IM**.

The Emerging Role of Nuclear Viral DNA Sensors

*The Journal of Biological Chemistry* (2015), Sep 9. pii: jbc.R115.652289.



- Selected for the journal cover

80. Lin KW, McDonald KR, Guise AJ, Chan A, **Cristea IM\***, Zakian VA\* (\*-co-corresponding authors)

Proteomics of budding yeast telomerase: the telomerase associated Cdc48-Npl4-Ufd1 complex regulates Est1 abundance and telomere length  
*Nature Communications* (2015) Sep 14;6:8290. doi: 10.1038/ncomms9290.

79. **Cristea IM**, Graham D.

Virology meets Proteomics.

*Proteomics*. 2015 Jun;15(12):1941-2. doi: 10.1002/pmic.201570103.

- Perspective article and journal cover for special issue of Proteomics.

78. Hahn J, Tanner AW, Carabetta VJ, **Cristea IM**, Dubnau D.

ComGA-RelA interaction and persistence in the Bacillus subtilis K-state.

*Mol Microbiol.* (2015) Apr 21. doi: 10.1111/mmi.13040.

77. Orzalli MH, Broekema NM, Diner BA, Hancks DC, Elde NC, **Cristea IM**, Knipe DM  
cGAS-Mediated Stabilization of IFI16 Promotes Innate Signaling During Herpes Simplex Virus Infection

*PNAS* (2015) Apr 7;112(14):E1773-81. doi: 10.1073/pnas.1424637112.

76. Koyuncu OO, Song R, Greco TM, **Cristea IM**, Enquist LW

The number of alphaherpesvirus particles infecting axons and the axonal protein repertoire determines the outcome of neuronal infection.

*mBio*. (2015) Mar 24;6(2). pii: e00276-15. doi: 10.1128/mBio.00276-15

75. Rowles DL, Tsai YC, Greco TM, Lin AE, Li M, Yeh J, **Cristea IM**

The DNA methyltransferase DNMT3A associates with viral proteins and impacts HSV-1 infection.

*Proteomics*. (2015) Mar 11. doi: 10.1002/pmic.201500035.

74. Crow MS, Javitt A, **Cristea IM**

A proteomics perspective on viral DNA sensing

*Journal of Molecular Biology* (2015) Feb 26. pii: S0022-2836(15)00110-2. doi:

10.1016/j.jmb.2015.02.016.

73. Diner BA, Lum KK, Javitt A, **Cristea IM**

Interactions of the antiviral factor IFI16 mediate immune signaling and herpes simplex virus-1 immunosuppression.

*Molecular Cellular Proteomics* (2015) Feb 18. pii: mcp.M114.047068. PMID: 25693804

72. Diner BA, Li T, Greco TM, Crow MS, Fuesler JA, Wang J, **Cristea IM**

The functional interactome of PYHIN immune regulators reveals IFIX is a sensor of viral DNA.

*Molecular Systems Biology* (2015), Feb 9;11(2):787. doi: 10.15252/msb.20145808.

71. Mathias RA, Guise AJ, **Cristea IM**  
Post-translational modifications regulate class IIa histone deacetylase function in health and disease.  
*Mol Cell Proteomics*. (2015) Jan 23. pii: mcp.O114.046565.
70. Mathias RA, Greco TM, Oberstein A, Budayeva HG, Chakrabarti R, Rowland EA, Kang Y, Shenk T, **Cristea IM**  
Sirtuin 4 is a lipoamidase regulating pyruvate dehydrogenase complex activity  
*Cell* (2014), Dec; 159 (7): 1615–1625. doi:10.1016/j.cell.2014.11.046
69. Koyunku E, Budayeva HG, Miteva YV, Ricci DP, Silhavy TJ, Shenk T, **Cristea IM**  
Sirtuins are evolutionarily conserved viral restriction factors  
*mBio* (2014), Dec 16;5(6). pii: e02249-14. doi: 10.1128/mBio.02249-14.
68. Jean Beltran P, **Cristea IM**  
The life cycle and pathogenesis of human cytomegalovirus infection: Lessons from Proteomics  
*Expert Reviews of Proteomics* (2014), Dec;11(6):697-711. doi: 10.1586/14789450.2014.971116.
67. Castellana M, Wilson MZ, Xu Y, Joshi P, **Cristea IM**, Rabinowitz JD, Gitai Z, Wingreen NS  
Enzyme clustering accelerates processing of intermediates through metabolic channeling.  
*Nat Biotechnol*. 2014 Oct;32(10):1011-8. doi: 10.1038/nbt.3018. Epub 2014 Sep 28.
66. Budayeva HG, **Cristea IM**  
A mass spectrometry view of stable and transient protein interactions  
*Adv Exp Med Biol*. (2014); 806:263-82
65. Greco TM, Diner BA, **Cristea IM**  
The impact of mass spectrometry-based proteomics in fundamental discoveries in virology  
*Annual Reviews in Virology* (2014); 1: 581-604
64. Guise AJ, Mathias RA, Rowland EA, Yu F, **Cristea IM**  
Probing phosphorylation-dependent protein interactions within functional domains of histone deacetylase 5 (HDAC5)  
*Proteomics* (2014) Jun 11. doi: 10.1002/pmic.201400092.
63. Amin NM, Greco TM, Kuchenbrod LM, Rigney MM, Chung MI, Wallingford JB, **Cristea IM**, Conlon FL  
Proteomic Profiling of Cardiac Tissue by Isolation of Nuclei Tagged in Specific Cell Types (INTACT)  
*Development* (2014) Feb;141(4):962-73.
62. Miteva YV, **Cristea IM**  
A Proteomic Perspective of SIRT6 Phosphorylation and Interactions, and their Dependence on its Catalytic Activity.  
*Mol Cell Proteomics*. (2014) Jan;13(1):168-83. doi: 10.1074/mcp.M113.032847. Epub 2013 Oct 25.

- Study selected as the focus of a News and View article in “News in Proteomics Research”

61. SIRT7 plays a role in ribosome biogenesis and protein synthesis.

Tsai YC, Greco TM, **Cristea IM**.

*Mol Cell Proteomics*. (2014) Jan;13(1):73-83. doi: 10.1074/mcp.M113.031377. Epub 2013 Oct 10.

- Selected by the Editors as “Highlight” of the journal issue
- Study also selected as the focus of a News and View article in “News in Proteomics Research”

60. Li T, Chen J, **Cristea IM**

Human cytomegalovirus tegument protein pUL83 inhibits IFI16-mediated nuclear DNA sensing for immune evasion

*Cell Host & Microbe* (2013) Nov. 13, Vol. 14, Issue 5, 591-599

59. Mann JM, Carabetta VJ, **Cristea IM**, Dubnau D.

Complex formation and processing of the minor transformation pilins of *Bacillus subtilis*.

*Mol Microbiol*. (2013) Dec;90(6):1201-15.

58. Niepel M, Molloy KR, Williams R, Farr JC, Meinema AC, Vecchiotti N, **Cristea IM**, Chait BT, Rout MP, Strambio-De-Castillia C.

The nuclear basket proteins Mlp1p and Mlp2p are part of a dynamic interactome including Esc1p and the proteasome.

*Mol Biol Cell*. (2013) Oct 23. Dec;24(24):3920-38. Epub 2013 Oct 23

57. Kaltenbrun E, Greco TM, Slagle CE, Kennedy LM, Li T, **Cristea IM**, Conlon FL.

A Gro/TLE-NuRD Corepressor Complex Facilitates Tbx20-Dependent Transcriptional Repression.

*J Proteome Res*. 2013 Oct 3. Dec 6;12(12):5395-409. doi: 10.1021/pr400818c. Epub 2013 Oct 3

56. Lin AE, Greco TM, Döhner K, Sodeik B, **Cristea IM**

A Proteomic Perspective of Inbuilt Viral Protein Regulation: pUL46 Viral Tegument Protein is Targeted for Degradation by the Viral ICP0 Protein during HSV-1 Infection

*Molecular & Cellular Proteomics* (2013) Nov;12(11):3237-52. doi: 10.1074/mcp.M113.030866.

Epub 2013 Aug 12

- Study selected as the focus for a News and Views article written by Adam Humbard for “Accelerating Science” website

55. Kratchmarov R, Kramer T, Greco TM, Taylor M, Ch'ng TH, **Cristea IM**, Enquist LW

Glycoproteins gE and gI are required for efficient KIF1A-dependent anterograde axonal transport of alphaherpesvirus particles in neurons

*Journal of Virology* (2013) Sep;87(17):9431-40. doi: 10.1128/JVI.01317-13. Epub 2013 Jun 26.

54. Mellacheruvu D, Wright Z, Couzens AL, Lambert JP, St-Denis N, Li T, Miteva YV, Hauri S, Sardi ME, Low TY, Halim VA, Bagshaw RD, Hubner NC, al-Hakim A, Bouchard A, Faubert D, Fermin D, Dunham WH, Goudreau M, Lin ZY, Gonzalez Badillo B, Pawson T, Durocher D, Coulombe B, Aebersold R, Superti-Furga G, Colinge J, Heck AJR, Choi H,

Gstaiger M, Mohammed S, **Cristea IM**, Bennett KL, Washburn MP, Raught B, Ewing RM, Gingras AC, Nesvizhskii AI

The CRAPome: a Contaminant Repository for Affinity Purification Mass Spectrometry Data  
*Nature Methods* (2013) Aug;10(8):730-6. doi: 10.1038/nmeth.2557. Epub 2013 Jul 7

53. Lenarcic E, Landry D, Greco TM, **Cristea IM**, Thompson S

TUX-MS: A Cell Based Method to Identify Host Factors Involved in Viral Amplification  
*Journal of Virology* (2013) Aug;87(15):8697-712. doi: 10.1128/JVI.00950-13. Epub 2013 Jun 5.

52. Joshi P, Greco TM, Guise AJ, Luo Y, Yu F, Nesvizhskii AI, **Cristea IM**

The functional interactome landscape of the human histone deacetylase family  
*Molecular Systems Biology* (2013) Jun 11;9:672. doi: 10.1038/msb.2013.26

- Selected as the Featured Article
- Selected for a News and Views focused on this study – Livyatan and Meshorer “The HDAC interaction network” *Molecular Systems Biology* (2013) 9:671
- Became one of the 10 most downloaded MSB manuscripts for 2013

51. Guise AJ, Budayeva HG, Diner BA, **Cristea IM**.

Histone deacetylases in herpesvirus replication and virus-stimulated host defense.  
*Viruses*. 2013 Jun 27;5(7):1607-32. doi: 10.3390/v5071607.

50. Joshi P, Quach OL, Giguere SSB, **Cristea IM**

A Functional Proteomics Perspective of DBC1 as a Regulator of Transcription  
*Journal of Proteomics & Bioinformatics* (2013) *in press*

- Part of special issue on “Applications of Mass Spectrometry in Epigenetics”

49. Tandon P, Miteva YV, Kuchenbrod LM, **Cristea IM**, Conlon FL

Tcf21 regulates the specification and maturation of proepicardial cells  
*Development* (2013) Jun;140(11):2409-21. doi: 10.1242/dev.093385. Epub 2013 May 1

48. Carabetta VJ, Tanner AW, Greco TM, Defrancesco M, **Cristea IM**, Dubnau D.

A complex of YlbF, YmcA and YaaT regulates sporulation, competence and biofilm formation by accelerating the phosphorylation of Spo0A.

*Molecular Microbiology* (2013) Mar 12. doi: 10.1111/mmi.12186.

47. Miteva YV, Budayeva HG, **Cristea IM**

Proteomics-Based Methods for Discovery, Quantification, and Validation of Protein-Protein Interactions.

*Analytical Chemistry* (2013) Jan 15;85(2):749-68. doi: 10.1021/ac3033257.

46. Rowles DL, Terhune SS, **Cristea IM**

Discovery of host-viral protein complexes during infection

*Methods in Molecular Biology* (2013) 1064:43-70. doi: 10.1007/978-1-62703-601-6\_4.

45. Kramer T, Greco TM, Taylor MP, **Cristea IM**, Enquist LW

Kinesin-3 mediates axonal sorting and directional transport of alphaherpesvirus particles in neurons

*Cell Host & Microbe* (2012) Dec. 13; 12(6):806-814

44. Guise AJ, Greco TM, Zhang IY, Yu F, **Cristea IM**

Aurora B-dependent regulation of class IIa histone deacetylases by mitotic nuclear localization signal phosphorylation

*Molecular & Cellular Proteomics* (2012) Nov;11(11):1220-9. doi: 10.1074/mcp.M112.021030

43. Greco TM, Miteva Y, Conlon FL, **Cristea IM**

Complementary Proteomic Analysis of Protein Complexes

*Methods in Molecular Biology* (2012) 917:391-407.

42. Conlon FL, Miteva Y, Kaltenbrun E, Waldron L, Greco TM, **Cristea IM**

Immunoisolation of Protein Complexes from *Xenopus*

*Methods in Molecular Biology* (2012) 917:369-90.

41. Li T, Diner BA, Chen J, **Cristea IM**

Acetylation modulates cellular distribution and DNA sensing ability of interferon-inducible protein IFI16

*Proc Natl Acad Sci U S A.* (2012) Jun 26;109(26):10558-63. Epub 2012 Jun 12

40. Gudleski-O'Regan N, Greco TM, **Cristea IM**, Shenk T

Probing the cell surface proteome during cytomegalovirus infection reveals that LRP1 reduces virion cholesterol and infectivity

*Cell Host & Microbe* (2012) Jul 19;12(1):86-96

- Selected as a "Research Highlight" in *Nature Chemical Biology*

39. Youn S, Li T, McCune BT, Edeling MA, Fremont DH, **Cristea IM**, Diamond MS

Evidence for a genetic and physical interaction between the NS1 and NS4B that modulates replication of West Nile virus

*Journal of Virology* (2012) Jul;86(13):7360-71. Epub 2012 May 2.

- Selected for the *Journal of Virology* "Spotlight"

38. Goodarzi H, Najafabadi HS, Oikonomou P, Greco TM, Fish L, Salavati R, **Cristea IM**, Tavazoie S

Systematic Discovery of Structural Elements Governing Mammalian mRNA Stability

*Nature* (2012), April 8;485(7397):264-8., doi:10.1038/nature11013

37. Sabouri N, McDonald KR, Webb CJ, **Cristea IM**, Zakian VA

DNA replication through hard to replicate sites, including both highly transcribed RNA Pol II and Pol III genes, requires the *S. pombe* Pfh1 helicase

*Genes and Development* (2012), Mar 15;26(6):581-93.

36. Tsai YC, Greco TM, Boonmee A, Miteva Y, **Cristea IM**.

Functional Proteomics Establishes the Interaction of SIRT7 with Chromatin Remodeling Complexes and Expands its Role in Regulation of RNA Pol I Transcription.

*Molecular & Cellular Proteomics* (2012) Feb;11(2):M111.015156.

- Selected by the Editors as "Highlight" of the journal issue

- Part of a "Research Highlight" in *Cell Research*, July 2012

35. Kramer T, Greco TM, Enquist L, **Cristea IM**.  
Proteomic Characterization of Pseudorabies Virus Extracellular Virions  
*Journal of Virology* (2011) Jul;85(13):6427-41. Epub 2011 Apr 27.
34. **Cristea IM**, Chait BT.  
Conjugation of magnetic beads for immunopurification of protein complexes.  
*Cold Spring Harb Protoc.* (2011) May 1;2011(5). pii: pdb.prot5610. doi: 10.1101/pdb.prot5610.
33. **Cristea IM**, Chait BT.  
Affinity purification of protein complexes.  
*Cold Spring Harb Protoc.* (2011) May 1;2011(5). pii: pdb.prot5611. doi: 10.1101/pdb.prot5611.
32. Blanco MA, Aleckovic M, Hua Y, Li T, Wei Y, Xu Z, **Cristea IM**, Kang Y.  
Identification of Staphylococcal nuclease domain containing 1 (SND1) as a Metadherin-interacting protein with metastasis-promoting functions  
*J. Biol. Chem.* (2011) April 8, as doi:10.1074/jbc.M111.240077
31. Dokudovskaya S, Waharte F, Schlessinger A, Pieper U, Devos DP, **Cristea IM**, Williams R, Salamero J, Chait BT, Sali A, Field MC, Rout MP, Dargemont C.  
A conserved coatmer-related complex containing Sec13 and Seh1 dynamically associates with the vacuole in *Saccharomyces cerevisiae*.  
*Molecular & Cellular Proteomics* (2011) Jun;10(6):M110.006478. Epub 2011 Mar 31.
30. Cowles CE, Li Y, Semmelhack MF, **Cristea IM**, Silhavy TJ.  
The free and bound forms of Lpp occupy distinct subcellular locations in *Escherichia coli*.  
*Mol Microbiol.* (2011) Mar;79(5):1168-81. Doi: 10.1111/j.1365-2958.2011.07539. Epub Jan 24.
29. Bloom J, **Cristea IM**, Procko AL, Lubkov V, Chait BT, Snyder M, Cross FR.  
Global analysis of CDC14 phosphatase reveals diverse roles in mitotic processes.  
*Journal of Biological Chemistry* (2011) Feb 18;286(7):5434-45. Epub 2010 Dec 2.
28. Greco TM, Yu F, Guise AJ, **Cristea IM**  
Nuclear import of histone deacetylase 5 by requisite nuclear localization signal phosphorylation  
*Molecular & Cellular Proteomics* (2011) Feb;10(2):M110.004317. Epub Nov 16
27. Terhune SS<sup>1</sup>, Moorman NJ<sup>1</sup>, **Cristea IM**<sup>1</sup>, Savaryn JP, Cuevas-Bennett C, Rout MP, Chait BT, Shenk T (<sup>1</sup>*These authors contributed equally to this work*)  
Human cytomegalovirus UL29/28 protein interacts with components of the NuRD complex which promote accumulation of immediate-early RNA  
*PLoS Pathogens* (2010) Jun 24;6(6):e1000965
26. **Cristea IM**<sup>\*</sup>, Moorman NJ<sup>\*</sup>, Terhune SS<sup>\*</sup>, Cuevas CD, O'Keefe ES, Rout MP, Chait BT, Shenk T (<sup>\*</sup>*equal contribution*)

Human Cytomegalovirus pUL83 Stimulates Activity of the Viral Immediate-Early Promoter through its Interaction with the Cellular IFI16 Protein.

*Journal of Virology* (2010) Aug;84(15):7803-14. Epub 2010 May 26.

25. Carabetta VJ, Silhavy TJ, **Cristea IM**.

The response regulator SprE (RssB) is required for maintaining PAP I-degradosome association during stationary phase.

*Journal of Bacteriology* (2010) Jul;192(14):3713-21. Epub 2010 May 14.

24. **Cristea IM**, Rozjabek H, Molloy KR, Karki S, White LL, Rice CM, Rout MP, Chait BT, MacDonald MR.

Host factors associated with the Sindbis virus RNA-dependent RNA polymerase: a role for G3BP1 and G3BP2 in virus replication.

*Journal of Virology* (2010) Jul;84(13):6720-32. Epub 2010 Apr 14.

23. Goldberg AD, Banaszynski LA, Noh KM, Lewis PW, Elsaesser SJ, Stadler S, Dewell S, Law M, Guo X, Li X, Wen D, Chapgier A, DeKolver RC, Miller JC, Lee YL, Boydston EA, Holmes MC, Gregory PD, Grealley JM, Rafii S, Yang C, Scambler PJ, Garrick D, Gibbons RJ, Higgs DR, **Cristea IM**, Urnov FD, Zheng D, Allis CD

Distinct Factors Control Histone Variant H3.3 Localization at Specific Genomic Regions  
*Cell* (2010) Mar 5;140(5):678-91

22. Carabetta VJ, Li T, Shakya A, Greco TM, **Cristea IM**

Integrating Lys-N proteolysis and N-terminal guanidination for improved fragmentation and relative quantification of singly-charged ions

*Journal of the American Society for Mass Spectrometry* (2010) Jun;21(6):1050-60.

21. Moorman NJ, Sharon-Friling R, Shenk T, **Cristea IM**

A targeted spatial-temporal proteomic approach implicates multiple cellular trafficking pathways in human cytomegalovirus virion maturation

*Molecular & Cellular Proteomics* (2010) May;9(5):851-60. Epub 2009 Dec 20

20. Luo Y, Li T, Yu F, Kramer T, **Cristea IM**

Resolving the Composition of Protein Complexes using a MALDI LTQ Orbitrap

*Journal of the American Society for Mass Spectrometry* (2010) Jan;21(1):34-46. Epub 2009 Sep 17.

19. **Cristea IM**

Targeted Proteomic Approaches Provide Insights into Virion Assembly and Chromatin Remodeling during Viral Infection

*Molecular & Cellular Proteomics* (2009); Aug 5: 15-15

18. Selimi F, **Cristea IM**, Heller E, Chait BT, Heintz N.

Proteomic studies of a single CNS synapse type: the parallel fiber/purkinje cell synapse.

*PLoS Biology* (2009) Apr 14;7(4):e83.

- Study performed while at Rockefeller University, and mass spec data interpretation and paper writing completed at Princeton

**Articles published prior to Princeton:**

17. Moorman N,<sup>1</sup> **Cristea IM**,<sup>1</sup> Terhune SS,<sup>1</sup> Rout MP, Chait BT, Shenk T

<sup>1</sup>*These authors contributed equally to this work.*

Human cytomegalovirus protein UL38 inhibits host cell stress responses by antagonizing the tuberous sclerosis protein complex

*Cell Host & Microbe* (2008) Apr 17;3(4):253-62

16. **Cristea IM**, Rout MP, Chait BT

Walking in the proteomic footprints of viral infection

*Molecular & Cellular Proteomics* (2007); 6 (8): 65-65

15. Glavy JS, Krutchinsky A, **Cristea IM**, Berke IC, Boehmer T, Blobel G, Chait BT

Cell-Cycle Dependent Phosphorylation of the Nuclear Pore Nup107-160 Subcomplex

*Proc Natl Acad Sci U S A.* 2007 Mar 6;104(10):3811-6. Epub 2007 Feb 28.

14. Warwood S, Mohammed S, **Cristea IM**, Evans C, Whetton AD, Gaskell SJ,

Guanidination chemistry for qualitative and quantitative proteomics

*Rapid Commun Mass Spectrom.* (2006); 20(21):3245-56.

13. **Cristea IM**, Carroll JW, Rout MP, Rice CM, Chait BT, MacDonald MR,

Tracking and elucidating alphavirus-host protein interactions

*Journal of Biological Chemistry* (2006) Oct 6;281(40):30269-78. Epub 2006 Aug 8.

12. Wang QJ, Ding Y, Kohtz DS, Mizushima N, **Cristea IM**, Rout MP, Chait BT, Zhong Y, Heintz N, Yue Z.

Induction of autophagy in axonal dystrophy and degeneration

*Journal of Neuroscience* (2006) Aug 2;26(31):8057-68.

11. **Cristea IM**, Williams R, Chait BT, Rout MP

Fluorescent proteins as proteomic probes

*Molecular & Cellular Proteomics* (2005) Dec;4(12):1933-41. Epub 2005 Sep 9.

10. **Cristea IM**, Degli Esposti M

Membrane lipids and cell death: an overview

*Chemistry and Physics of Lipids* (2004) 129, 133-160

9. Sorice M, Circella A, **Cristea IM**, Garofalo T, Di Renzo L, Alessandri C, Valesini G, Degli Esposti M  
Cardiolipin and its metabolites move from mitochondria to other cellular membranes during death receptor-mediated apoptosis

*Cell Death and Differentiation* (2004) 11 (10), 1133-1145

8. Meneses-lorente G, Guest P, Lawrence J, Muniappa N, Knowles M, Skynner H, Salim K, **Cristea I**, Mortishire-Smith R, Gaskell SJ, Watt A

A proteomic investigation of drug induced steatosis in rat liver

*Chemical Research in Toxicology* (2004) 17 (5), 205-212



7. **Cristea IM**, Gaskell SJ, Whetton DW  
Proteomics techniques and their application to hematology  
*Blood* (2004) May 15;103(10):3624-34. Epub 2004 Jan 15.
6. Degli Esposti M, **Cristea IM**, Gaskell SJ, Nakao Y, Dive C  
Pro-apoptotic Bid binds to monolysocardiolipin, a new molecular connection between mitochondrial membranes and cell death  
*Cell Death and Differentiation* (2003) 10, 1300-1309
5. **Cristea IM**, Doctoral Dissertation:  
Proteome Changes During Early Stages of Cell Injury  
*University of Manchester Institute of Science and Technology*, Manchester, U.K. (2002)
4. Fairlamb IJS, Dickinson JM, **Cristea IM**  
Influence of palladium(II) complexes on the cycloaddition of  $\alpha$ -bromoalkyl ketenes to cyclopentadiene  
*Tetrahedron* (2001) 57 (11):2237
3. Fairlamb IJS, Dickinson JM, **Cristea IM**  
Palladium-catalysed [ $\pi 2a + \pi 2s$ ] of  $\alpha$ -bromoalkyl ketenes to cyclopentadiene  
*Tetrahedron Letters* (2000) 41 (19):3739
2. **Cristea IM**, Master in Chemistry Dissertation:  
Characterisation of proteins using tandem mass spectrometry and Lys-C digestion  
*University of Manchester Institute of Science and Technology*, Manchester, U.K. (1999)
1. **Cristea IM**, Meghea A, Research study:  
Adsorption of toxins on medicinal coal in humans  
*University "Politehnica" of Bucharest*, Romania (1997)

## Book Chapters

- Greco TM, Guise AJ, **Cristea IM**. Determining the Composition and Stability of Protein Complexes using an Integrated Label-free and Stable Isotope Labeling Strategy; *Methods in Molecular Biology* (2015)
- Rowles DL, Terhune SS, **Cristea IM**, Discovery of host-viral protein complexes during infection; *Methods in Molecular Biology* (2013);1064:43-70. doi: 10.1007/978-1-62703-601-6\_4.
- Greco TM, Miteva Y, Conlon FL, **Cristea IM**, Complementary Proteomic Analysis of Protein Complexes; *Methods in Molecular Biology* (2012);917:391-407.
- Conlon FL, Miteva Y, Kaltenbrun E, Waldron L, Greco TM, **Cristea IM**, Immunolocalization of Protein Complexes from *Xenopus*; *Methods in Molecular Biology* (2012);917:369-90.
- Cristea IM**, Chait BT, Purification of Protein Complexes for Mass Spectrometry Analysis; *Proteomics: A Cold Spring Harbor Laboratory Course Manual*, November (2009), ISBN 978-087969793-8

## Selected Non-scientific Publications

- Cristea IM – “The Grandeur in This View of Life: Darwin’s Story”, *Natural Selections*, Issue 22, December 2005
- Cristea IM – “Newsable”, *Natural Selections*, Issue 24, March 2006
- Cristea IM – “Symbols of American history within 30 Minutes of New York City”, *Natural Selections*, Issue 28, July 2006
- Cristea IM – “A daydream written in words: traveling in time with Herbert Cohen”, *Natural Selections*, Issue 33, Dec 2006
- Cristea IM – “He represented the beauty and the contradiction of human nature”, Book summarizing the life of *Paul Cristea*, (in Romanian) April 2015

## ORAL PRESENTATIONS: Invited Seminars and Keynote Lectures

### 2016:

#### **Cold Spring Harbor Laboratory, Summer Proteomics Course, June 2016 (Head Instructor)**

Cristea IM. *Determining the specificity and relative stability of protein interactions*

#### **Cold Spring Harbor Laboratory, Summer Proteomics Course, June 2016 (Head Instructor)**

Cristea IM. *Experimental considerations when studying protein complexes*

#### **Princeton University, Department of Molecular Biology, May 2016**

Cristea IM. *Organelle Remodeling during Viral Infection*

#### **Berkeley University, April 2016 (Invited Speaker)**

Cristea IM. *Understanding Cellular Host Defenses against Viral Infection: Lessons from Proteomics*

#### **Johns Hopkins University, Baltimore, March 2016 (Invited Speaker)**

Cristea IM. *Delineating cellular host defense mechanisms against viral infection*

#### **Microbiology Society Meeting, Liverpool, UK, March 2016 (Invited Speaker)**

Cristea IM. *Virology meets Proteomics: Understanding Cellular Defense Mechanisms against Herpesvirus Infections*

#### **U.S. HUPO (Human Proteome Organization), 12<sup>th</sup> Annual Conference, Boston, March 2016 (Invited Speaker)**

Cristea IM. *Organelle Remodeling during Viral Infection*

#### **US HUPO (Human Proteome Organization) 12<sup>th</sup> Annual Conference, Boston, March 2016 (Course Instructor)**

Cristea IM. *Protein Interaction Course*

#### **U.S. – Japan Cooperative Medical Sciences Program, 50th Anniversary Celebration and the 18th International Conference on Emerging Infectious Diseases (EID), NIH, January 2016 (Invited Speaker)**

Cristea IM. *Effects of Viral Infection on the Host Cell*

**2015:**

**Thermo Users Meeting, Boston, MS, November 2015 (Invited Speaker)**

Cristea IM. *Virology meets Proteomics: Host Defense against Viral Infections*

**Thermo Users Meeting, Somerset, NJ, November 2015 (Invited Speaker)**

Cristea IM. *Host Defense against Viral Infections: Lessons from Proteomics*

**The VI Proteomics Workshop, Brazilian Biosciences National Laboratory (LNBio), Campinas, Brazil, November 2015 (Invited Speaker)**

Cristea IM. *The ancient antiviral roles of sirtuins revealed by proteomic-genomic approaches*

**The VI Proteomics Workshop, Brazilian Biosciences National Laboratory (LNBio), Campinas, Brazil, November 2015 (Invited Speaker)**

Cristea IM. *Tutorial on identifying, validating, and characterizing protein-protein interactions*

**Microbiology Seminar Series, Fred Hutchinson Cancer Research Center, Seattle, October 2015 (Invited Speaker)**

Cristea IM. *Virology meets Proteomics: Understanding Cellular Defense Mechanisms against Herpesvirus Infections*

**University of Toronto, Seminar Series of the Department of Molecular Genetics, September 2015 (Invited Speaker)**

Cristea IM. *The Ancient Antiviral Properties of Sirtuins: Lessons from Proteomics*

**CHDI Foundation, August 2015 (Invited Speaker)**

Cristea IM. *Investigating the functional interaction networks and enzymatic activities of lysine deacetylases*

**40<sup>th</sup> International Herpesvirus Workshop, Boise, Idaho, July 2015 (Invited Speaker)**

Cristea IM. *Viral Proteomics at the Interface between Cellular Host Defense and Viral Immune Evasion*

**Cold Spring Harbor Laboratory, Summer Proteomics Course, July 2015 (Head Instructor)**

Cristea IM. *Determining the specificity and relative stability of protein interactions*

**Cold Spring Harbor Laboratory, Summer Proteomics Course, July 2015 (Head Instructor)**

Cristea IM. *Discovery and characterization of protein complexes*

**American Society for Virology (ASV) Conference, London, Ontario, Canada, July 2015 (Invited Symposium Speaker)**

Cristea IM. *Virology meets Proteomics: Understanding Cellular Defense Mechanisms against Herpesvirus Infections*

**Gordon Conference, Viruses & Cells, Girona, Spain, June 2015 (Invited Speaker)**

Cristea IM. *The Antiviral Sirtuin 4 is a Lipoamidase Regulating Pyruvate Dehydrogenase Complex Activity*

**63rd American Society for Mass Spectrometry Conference (ASMS), St. Louis, MO, June 2015**

Cristea IM. *Sirtuin 4 is a Lipoamidase Regulating Pyruvate Dehydrogenase Complex Activity*

**Invited Keynote Lecture, 3<sup>rd</sup> International CRC 900 Symposium, Hannover, Germany, May 2015**

Cristea IM. *Mechanisms of Host Defense versus Viral Immune Evasion*

**NSF Workshop “Mass Spectrometry Data to Knowledge”, Arlington, Virginia, May 2015 (Invited Speaker)**

Cristea IM. *Biological Questions Answered using MS data*

**The Inaugural Annual Retreat of the Department of Biological Chemistry, Johns Hopkins University Medical School, May 2015 (Invited Keynote Speaker)**

Cristea IM. *Virology meets Proteomics: Understanding Cellular Host Defense Against Viral Infections*

**Keystone Symposia on The Human Proteome, Stockholm, Sweden, April 2015 (Invited Speaker)**

Cristea IM. *The Impact of Protein Interaction Studies on Discovering Host Defense Factors during Viral Infections*

**Accelerator Group, Princeton University, Princeton, April 2015**

Cristea IM. *Mechanisms of cellular defense against viral infections*

**Frontiers in Biochemistry Seminar, Department of Biochemistry, University of Vanderbilt, April 2015 (Invited Speaker)**

Cristea IM. *Understanding Cellular Host Defense against Viral Infection: Lessons from Proteomics*

**Department of Chemistry, University of Purdue, March 2015 (Invited Speaker)**

Cristea IM. *Virology Meets Proteomics: Understanding Cellular Defense Mechanisms against Viral Infections*

**US HUPO (Human Proteome Organization) 11<sup>th</sup> Annual Conference, session on “Pathogen Infection” Tempe, Arizona, March 2015 (Invited Speaker)**

Cristea IM. *The antiviral protein sirtuin 4 is a lipoamidase regulating the pyruvate dehydrogenase complex*

**US HUPO (Human Proteome Organization) 11<sup>th</sup> Annual Conference, Tempe, Arizona, March 2015 (Course Instructor)**

Cristea IM. *Protein Interaction Course*

**Pittcon 2015 Annual Conference, Oral session on “Integrating Genomic and Proteomic Analytical Information”, New Orleans, March 2015 (Invited Speaker)**

Cristea IM, *Genomic and Proteomic Insights into the Ancient Antiviral Functions of Sirtuins*

**Pittcon 2015 Annual Conference, Oral session on “Ralph N Adams Award”, New Orleans, March 2015 (Invited Speaker)**

Cristea IM, *Protein Interaction Networks and Quantitative Proteomics Reveal Sensors of Viral DNA*

**2014:**

**ASV Conference on Viral Manipulation of Nuclear Processes, Washington, November 2014 (Invited Speaker)**

Cristea IM, *Viral Immune Evasion: Lessons from Proteomics*

**CHDI Foundation, October 2014 (Invited Speaker)**

Cristea IM, *Emerging Roles for Acetylation in Regulating Host Defense against Viral Infection*

**Fox Chase Inflammation Symposium, Philadelphia, October 2014 (Invited Speaker)**

Cristea IM, *Viral Immune Evasion: Lessons from Proteomics*

**13<sup>th</sup> Human Proteome Organization World Congress, Madrid, Spain, October 2014 (Invited Keynote Speaker)**

Cristea IM, *Understanding cellular host defense against viral infection: Lessons from Proteomics*

**Infectious Disease Initiative meeting at the 13<sup>th</sup> Human Proteome Organization World Congress, Madrid, Spain, October 2014 (Chair and co-organizer of the Initiative)**

Cristea IM, *Proteomics in studies of infectious diseases*

**Chromatin control of viral infection, NIH, September 2014**

Cristea IM, *Nuclear DNA Sensing and Viral Immune Evasion*

**Mass spectrometry symposium in health and life sciences, San Francisco, August 2014 (Invited Keynote Lecturer)**

Cristea IM, *Cellular Immune Response versus Viral Immune Evasion: Lessons from Proteomics*

**FASEB conference on “Protein Interactions, Structures, Technologies and Networks”, July 2014, Snowmass, Colorado, July-August 2014 (Co-organizer of the conference)**

Cristea IM, *Host defense against viral infection: A proteomics perspective*

**Summer Proteomics Course, Cold Spring Harbor Laboratory, July 2014 (Course Head Instructor)**

Cristea IM, *Determining the specificity and relative stability of protein-protein interactions*

**Summer Proteomics Course, Cold Spring Harbor Laboratory, July 2014 (Course Head Instructor)**

Cristea IM, *Discovery and characterization of protein complexes*

**62nd American Society for Mass Spectrometry Conference (ASMS), Baltimore, MS, June 2014**

Li T, Diner B, Chen J, Cristea IM. *Human Immune Defense versus Viral Immune Evasion: Emerging roles for phosphorylation and acetylation in virus-host dynamics*

**Symposium of Herpesviruses: Pathogenesis and Cancer, University of Pennsylvania, Philadelphia, June 2014 (Invited Keynote Speaker)**

Cristea IM, *Host Defense against Viral Infection: Proteomics meets Virology*

**US HUPO (Human Proteome Organization) 10<sup>th</sup> Annual Conference, session on "Protein Interactions and Structure" Seattle, April 2014 (Invited Speaker)**

Cristea IM, *Host Defense against Viral Infection: A Proteomics Perspective*

**Johns Hopkins University School of Medicine, Department of Biophysics and Biophysical Chemistry, April 2014 (Invited Speaker)**

Cristea IM, *Host Defense versus Viral Immune Evasion: A Proteomics Perspective*

**Children's Hospital of Philadelphia, Philadelphia, March 2014 (Invited Speaker)**

Cristea IM, *Emerging Roles For Acetylation During Viral Infection: Functional Interactome Landscape of Human Histone Deacetylase*

**University of Colorado, Department of Biochemistry and Molecular Genetics, Denver, March 2014 (Invited Speaker)**

Cristea IM, *Host Defense and Viral Immune Evasion: A Proteomics Perspective*

**NYU School of Medicine, Biochemistry and Molecular Pharmacology Seminar Series, March 2014 (Invited Speaker)**

Cristea IM, *Host Defense and Viral Immune Evasion: A Proteomics Perspective*

**Keystone Symposia, Omics Meets Cell Biology: Applications to Human health and Disease, February 2014, Taos, New Mexico (Invited Speaker)**

Cristea IM, *Proteomics meets Virology*

**FORGE Life Sciences, NJ, February 2014**

Cristea IM, *Omics approaches for antiviral discovery*

**Harvard Medical School, Microbiology and immunology Department, Boston, February 2014 (Invited Speaker)**

Cristea IM, *Host Defense versus Viral immune Evasion: A Proteomics Perspective*

**2013:**

**Cornell University, Ithaca, NY, November 2013 (Invited Speaker)**

Cristea IM, *Host Defense against Viral Infection*

**Tsinghua University, Beijing, China, September 2013 (Invited Speaker)**

Cristea IM, *The Emerging Role of Acetylation in Host Defense Mechanisms against Viral Infection*

**China HUPO (CNHUPO) Meeting, China, Chongqing, September 2013 (Plenary Lecture Speaker)**

Cristea IM, *The functional interactome landscape of human histone deacetylases*

**SIMM, Shanghai, China, September 2013 (Invited Speaker)**

Cristea IM, *The functional interactome landscape of human histone deacetylases*

**Wisconsin Human Proteomics Symposium, BioPharmaceutical Technology Center, Madison, WI, August 2013 (Invited Speaker)**

Cristea IM, *Emerging Roles for Acetylation in Regulating Host Defense Mechanisms against Viral Infection*

**Cold Spring Harbor, Proteomics Course, July 2013 (Head Instructor)**

Cristea IM, *Protein Interactions: Discovery, Quantification and Validation*

**Department of Biochemistry and Molecular Biology, University of Southern Denmark, Odense, Denmark, June 2013 (Invited Speaker)**

Cristea IM, *The functional interactome landscape of human histone deacetylases*

**61<sup>st</sup> American Society for Mass Spectrometry Conference, Minnesota, June 2013**

Joshi P, Greco T, Guise A, Luo Y, Yu F, Nesvizhskii A, Cristea IM, *The functional interactome landscape of the human histone deacetylase family: A proteomics-bioinformatics approach for profiling relative interaction stabilities*

**Microbiology Department Seminar Series, University of Alabama at Birmingham, Birmingham, May 2013 (Invited Speaker)**

Cristea IM, *A Proteomic Perspective of the Dynamic Interplay between Viruses and Hosts*

**US HUPO 9<sup>th</sup> Annual Conference, Baltimore, March 2013 (Invited course coordinator and Lecturer)**

Cristea IM, *Stable and Transient Protein-Protein Interactions: Discovery, Quantification and Validation*

**Boston School of Medicine, Department of Biochemistry, Boston, February 2013 (Invited Speaker)**

Cristea IM, *Emerging roles for acetylation in regulating host defense mechanisms against viral infection*

**18<sup>th</sup> Proteomics Symposium, Australasian Proteomics Society, Lorne, Australia, February 2013 (Invited Keynote Speaker and Molecular and Cellular Lectureship recipient)**

Cristea IM, *Emerging roles for acetylation in regulating host defense mechanisms against viral infection*

**Queensland Institute of Medical Research, Brisbane, February 2013 (Invited Speaker)**

Cristea IM, *A Proteomic Perspective of the Dynamic Interplay between Viruses and Hosts*

**University of Washington, Seattle, January 2013 (Invited Speaker)**

Cristea IM, *Emerging roles for acetylation in regulating host defense mechanisms against viral infection*

**2012:**

**Translational Proteomics Center, Proteomics Symposium, Puerto Rico, December 2012 (Invited Speaker)**

Cristea IM, *Proteomics at the Interface between Viruses and Hosts*

**Penn State University, College of Medicine, December 2012 (Invited Speaker)**

Cristea IM, *Proteomics at the Interface between Viruses and Hosts*

**The John Hopkins University School of Medicine, November 2012 (Invited Speaker)**

Cristea IM, *Proteomics at the Interface between Viruses and Hosts*

**Thermo Fisher Scientific Life Science Mass Spectrometry Users Meeting, October 2012 (Invited Speaker)**

Cristea IM, *CID and ETD for PTMs using Targeted MS2, SRM and Easy Spray*

**Molecular Biology Department Seminar Series, Princeton University, September 2012**

Cristea IM, *A Proteomics View of the Dynamic Interplay between Viruses and Hosts*

**NIH, "Chromatin Control of Viral Infection" Symposium, September 2012 (Invited Speaker)**

Cristea IM, *Proteomics at the Interface between Viruses and Hosts*

**NJ American Chemical Society (NJACS) meeting, Awards Symposium, September 2012 (Invited Speaker)**

Cristea IM, *Targeting Immune Sensors of Viral Infection using Proteomics*

**Cold Spring Harbor, Proteomics Course, July 2012 (Head Instructor)**

Cristea IM, *Stable and Transient Protein-Protein Interactions: Discovery, Quantification and Validation*

**13<sup>th</sup> Annual Herpesvirus Symposium, University of Pennsylvania, June 2012 (Invited Plenary Speaker)**

Cristea IM, *Targeting Immune Sensors of Viral Infection using Proteomics*

**Taiwan Proteomics Society Annual Conference: Disease Proteomics and Metabolomics (HUPO), Kaohsiung, Taiwan, June 2012 (Invited Speaker)**

Cristea IM, *Proteomics at the Interface between Viruses and Hosts: A Perspective on Innate Immunity*

**National Yang-Ming University, Taipei, Taiwan, May 2012 (Invited Speaker)**

Cristea IM, *Intricate phosphorylation-dependent mechanisms regulate histone deacetylase functions*



**60<sup>th</sup> American Society for Mass Spectrometry Conference, Vancouver, Canada, May 2012**

Koyuncu E, Miteva Y, Budayeva H, Shenk T, Cristea IM, *Discovery of Antiviral Roles of Mammalian Sirtuins: A Systems Biology View*

**University of Washington, UWPR, Proteomics Symposium, Seattle, May 2012 (Invited Speaker)**

Cristea IM, *Targeting Immune Sensors of Viral Infection using Proteomics*

**U.C. Davis, Department of Molecular and Cellular Biology seminar Series, May 2012 (Invited Speaker)**

Cristea IM, *A Proteomics View of the Dynamic Interplay between Viruses and Hosts*

**Harvard University, Center for Systems Biology, May 2012 (Invited Speaker)**

Cristea IM, *Proteomics at the Interface between Viruses and Hosts*

**UMDNJ, The Public Health Research Institute Center, April 2012 (Invited Speaker)**

Cristea IM, *A Proteomics View of the Dynamic Interplay between Viruses and Hosts*

**University of North Carolina, Department of Pharmacology Seminar Series, March 2012 (Invited Speaker)**

Cristea IM, *A Proteomics View of the Dynamic Interplay between Viruses and Hosts*

**University of Pennsylvania, Department of Microbiology Seminar Series, March 2012 (Invited Speaker)**

Cristea IM, *A Systems Biology View of the Dynamic Interplay between Viruses and Hosts*

**US HUPO 8<sup>th</sup> Annual Conference, San Francisco, March 2012 (Invited course coordinator and Lecturer)**

Cristea IM, *Stable and Transient Protein-Protein Interactions: Discovery, Quantification and Validation*

**US HUPO 8<sup>th</sup> Annual Conference, San Francisco, March 2012**

Guise A, Yu F, Greco T, Zhang I, Cristea IM, *Novel Targets of Aurora B: Phosphorylation and Regulation of Class IIa Histone Deacetylases*

**US HUPO 8<sup>th</sup> Annual Conference, San Francisco, March 2012**

Li T, Diner BA, Chen J, Cristea IM, *Acetylation Modulates Cellular Distribution and DNA Sensing Ability of Interferon-Inducible Protein IFI16*

**Louisiana State University Health Sciences Center, Department of Physiology, January 2012 (Invited Speaker)**

Cristea IM, *A Systems Biology View of the Dynamic Interplay between Viruses and Hosts*

**2011:**

**Albert Einstein College of Medicine, December 2011 (Invited Speaker)**

Cristea IM, *A Systems Biology View of the Dynamic Interplay between Viruses and Hosts*

**Cornell University, Northeast Symposium on Proteomics and Protein Chemistry, November 2011 (Invited Speaker)**

Cristea IM, *A Proteomic Perspective of the Dynamic Interplay between Viruses and Hosts*

**National Institute of Basic Biology (NIBB), Okazaki, Japan, November 2011 (Invited Speaker)**

Cristea IM, *Discovery of Antiviral Roles of Mammalian Sirtuins: A Systems Biology View*

**Temple University School of Medicine, October 2011 (Invited Speaker)**

Cristea IM, *A Spatial-Temporal View of Viral Infection from a Proteomics Perspective*

**10<sup>th</sup> Annual HUPO World Congress, Geneva, September 2011 (Invited Speaker)**

Cristea IM, *Decoding the Spatial and Temporal Regulation of Protein Interactions using Isobaric Tags*

**10<sup>th</sup> International Symposium on Mass Spectrometry in the Health and Life Sciences: Molecular and Cellular Proteomics, San Francisco, August 2011 (Invited Keynote Lecturer)**

Cristea IM, *Discovery of Antiviral Roles of Mammalian Sirtuins: A Systems Biology View*

**Workshop on Genomics and Proteomics of Oncogenic Viruses, Syria, VA, August 2011 (Invited Keynote Speaker)**

Cristea IM, *A Proteomics Perspective of the Spatial and Temporal Virus-Host Interplay*

**Cold Spring Harbor, Proteomics Course, June 2011 (Invited Lecturer)**

Cristea IM, *Targeted Proteomic Approaches to Study Viral Infections*

**International Fission Yeast Meeting, Boston, MA, June 2011.**

McDonald KR, Sabouri N, Cristea IM, Zakian VA, *Telomere association of S. pombe DNA helicase Pfh1*

**Princeton University, Reunion Seminar, May 2011**

Cristea IM, *Understanding the Dynamic Intricacies of Viral Infection from a Proteomics Perspective*

**NIH Proteomics Interest Group, NIH, May 2011 (Invited Speaker)**

Cristea IM, *Dynamic Intricacies of Viral Infection: A Proteomics Perspective*

**University of Oxford, Annual Meeting for the Human Frontier Science Program, May 2011 (Invited Speaker)**

Cristea IM, *A hybrid approach to revealing intermediate structures of Herpes Simplex Virus*

**NIH National Institute of Drug Abuse, Avant-Garde Awardee Workshop, April 2011 (Invited Speaker)**

Cristea IM, *Understanding the Dynamic Intricacies of Viral Infection from a Proteomic Perspective*

**US HUPO Conference, Raleigh NC, March 2011 (Invited Speaker)**

Cristea IM, *A Proteomic Perspective of the Dynamic Interplay between Viruses and Hosts*

**Pittcon International Conference, Atlanta, March 2011 (Invited Speaker)**

Cristea IM, *A Proteomic Perspective of the Dynamic Interplay between Viruses and Hosts* (talk part of the session on *Driving Biological Discovery Using Proteomics*)

**University of Maryland, Chemistry-Biology Interface Seminar Series, March 2011 (Invited Speaker)**

Cristea IM, *At the Dynamic Interface between Viruses and Hosts: A Proteomic Perspective*

**ABRF International Symposium of the Association of Biomolecular Resource Facilities, San Antonio, February 2011 (Invited Speaker)**

Cristea IM, *The Virus-Host Interface: Exploring Dynamic Protein Interactions via Targeted Proteomics*

**16<sup>th</sup> Proteomics Symposium, Australasian Proteomics Society, Lorne, Australia, February 2011 (Invited Keynote Speaker)**

Cristea IM, *A Proteomic Perspective of the Dynamic Interplay between Viruses and Hosts*

**2010:**

**Novartis, Boston, December 2010 (Invited Speaker)**

Cristea IM, *A Proteomic Perspective of the Dynamic Interplay between Viruses and Hosts*

**University of Nebraska Medical Center, Department of Pharmacology and Experimental Neuroscience, Omaha, November 2010 (Invited Speaker)**

Cristea IM, *The Dynamic Interplay between Viruses and Hosts: A Proteomics Perspective*

**City of Hope, CA, November 2010 (Invited Speaker)**

Cristea IM, *The Dynamic Interplay between Viruses and Hosts: A Proteomics Perspective*

**University of California Los Angeles, CA, November 2010 (Invited Speaker)**

Cristea IM, *A Proteomics Perspective of the Dynamic Interplay between Viruses and Hosts*

**University of Michigan, Department of Biological Chemistry, Ann Arbor, November 2010 (Invited Speaker)**

Cristea IM, *The Dynamic Interplay between Viruses and Hosts: A Proteomics Perspective*

**37<sup>th</sup> FACSS (The Federal of Analytical Chemistry and Spectroscopy Societies), Raleigh, NC, October 2010 (Invited Speaker)**

Cristea IM, *A Proteomic Perspective of the Dynamic Interplay between Viruses and Hosts*

**2010 Thermo Fisher Scientific Users Meeting, Somerset, NJ, Oct 2010 (Invited Speaker)**

Cristea IM, *A Proteomic Perspective of the Dynamic Interplay between Viruses and Hosts*

**Cold Spring Harbor, Proteomics Course, July 2010 (Invited Lecturer)**

Cristea IM, *Targeted Proteomic Approaches to Study Viral Infections*

**58<sup>th</sup> American Society for Mass Spectrometry Conference, Salt Lake City, USA, May 2010**

Li T, Wang Z, Yu F, Cristea IM, *Proteomic Elucidation of Intrinsic Defense Mechanisms Mediated by the Interferon Inducible Protein X*

**58<sup>th</sup> American Society for Mass Spectrometry Conference, Salt Lake City, USA, May 2010**

Yu F, Greco TM, Guise AJ, Cristea IM, *The phosphorylation status of histone deacetylase 5 (HDAC5) regulates its deacetylation activity and localization*

**Proteomics 2010, Children's Hospital Boston, Boston, April 2010 (Invited Speaker)**

Cristea IM, *A Proteomic Perspective of the Dynamic Interplay between Viruses and Hosts*

**NIH All-Hands Meeting at the National Technology Centers for Networks and Pathways, March 2010 (Invited Speaker)**

Cristea IM, *Targeted Proteomic Approaches Provide Insights into Dynamics of Viral Infection*

**5<sup>th</sup> AOHUPO Congress, Hyderabad, India, February 2010 (Invited Speaker)**

Cristea IM, *Targeted Proteomic Approaches to Study Viral Infections*

**2009:****University of Maine, December 2009 (Invited Speaker)**

Cristea IM, *Proteomic Approaches Provide Insights into Dynamic Virus-Host Protein Interactions*

**HUPO World Congress, Toronto, September 2009 (Invited Speaker)**

Cristea IM, *Viral Proteomics*

**Delaware Valley Mass Spectrometry Discussion Group, September 2009 (Invited Speaker)**

Cristea IM, *Proteomic-genomic investigation of protein complexes and assemblies*

**9<sup>th</sup> International Symposium on Mass Spectrometry in the Health and Life Sciences: Molecular and Cellular Proteomics, San Francisco, August 2009 (Invited Keynote Lecturer)**

Cristea IM, *Targeted Proteomic Approaches Provide Insights into Virion Assembly and Chromatin Remodeling during Viral Infection*

**5<sup>th</sup> International AIDS Society Conference, South Africa, July 2009 (Invited Speaker)**

Cristea IM, *Proteomic approaches to chromatin remodeling complexes and their modulation during HIV-1 infection*

**57<sup>th</sup> ASMS Conference on Mass Spectrometry, Philadelphia, June 2009**

Moorman NJ, Shenk TE, Cristea IM, *A targeted spatial-temporal proteomic approach reveals new cellular pathways involved in Human Cytomegalovirus virion maturation*

**Vanderbilt University, The Department of Microbiology and Immunology Seminar Series, Nashville, March 2009 (Invited Speaker)**

Cristea IM, *Targeted proteomic approaches to uncovering dynamic virus-host interactions*

**Emerging Evidence for Epigenomic Changes in Human Disease, NIH, March 2009 (Invited Speaker)**

Cristea IM, *Targeted Proteomic Approaches to Studying Viral Infections*

**Dana Farber Cancer Institute, Boston, January 2009 (Invited Speaker)**

Cristea IM, *Targeted proteomic approaches to uncovering protein assemblies: Stories of Dynamic Virus-Host Interactions and Specific Synapse Characterization*

**NIH, Epigenetics, HIV/AIDS & Drug Abuse Workshop, January 2009 (Invited Speaker and Co-organizer)**

Cristea IM, *Viral Proteomics*

**Children's Hospital of Philadelphia, Cell Pathology Seminar series, January 2009 (Invited Speaker)**

Cristea IM, *Advances in Proteomic-based Approaches for Studying Protein Complexes: Tracking Dynamic Viral-Host Interactions*

**2008:**

**NIH Proteomics Interest Group, NIH, November 2008 (Invited Speaker)**

Cristea IM, *Uncovering Protein Complexes and Assemblies: Stories of Dynamic Virus-Host Interactions and Specific Synapse Characterization*

**Thermo Fisher Scientific Life Science MS Users Meeting, October 2008 (Invited Speaker)**

Cristea IM, *The performance of a MALDI LTQ Orbitrap and its application to the study of protein complexes*

**Cold Spring Harbor, Meeting on "Mechanisms of Neural Differentiation and Brain Tumors", August 2008 (Invited Speaker)**

Cristea IM, *Proteomic Approaches to Profiling a Single CNS Synapse Type: A New Role for Phospholipid Signaling in Postsynaptic Function*

**Princeton University, Undergraduate Student Seminar, July 2008**

Cristea IM, *New Proteomic Approaches to Revealing the Dynamic Viral-Host Interactome*

**AOHUPO, Cairns, Australia, June 2008 (Invited Speaker)**

Cristea IM, *Invited State-of-the-art technology talk; Advances in Rapid Isolations of Protein Complexes: Revealing the Dynamic Viral-Host Interactome*

**Cold Spring Harbor, Proteomics Course, June 2008 (Invited Lecturer)**

Cristea IM, *Proteomic Probes of the Living Interactome*

**56<sup>th</sup> American Society for Mass Spectrometry Conference, Thermo User Meeting, Seattle, USA, June 2008 (Invited Speaker)**

Cristea IM, *The MALDI LTQ Orbitrap and New Approaches to Studying Protein Complexes*

**56<sup>th</sup> American Society for Mass Spectrometry Conference, Seattle, USA, June 2008**

Cristea IM, *Selimi F, Heller E, Heintz E, Chait BT Protein profiling of specific synapses in specific cell types in the mammalian brain*

**Institute for Systems Biology, Seattle, April 2008 (Invited Speaker)**

Cristea IM, *Innovative Approaches in Viral Proteomics*

**M. D. Anderson Cancer Center, Houston, April 2008 (Invited Speaker)**

Cristea IM, *Revealing the dynamic viral-host protein interactome*

**The City University of New York, April 2008 (Invited Speaker)**

Cristea IM, *Viral Proteomics*

**National Institute of Allergy and Infectious Diseases (NIH), April 2008 (Invited Speaker)**

Cristea IM, *Proteomic Approaches to Revealing the Viral-Host Interactome*

**Princeton University, March 2008**

Cristea IM, *Viruses as Proteomic Probes of the Cellular Machinery: Towards Understanding Viral-Chromatin Modulation*

**All-Hands Meeting at the National Technology Centers for Networks and Pathways (NTCNP), National Institutes of Health (NIH), March 2008**

Cristea IM, *The proteomic footprint of viral infection: Human cytomegalovirus inhibits host cell stress responses*

**Prior to joining Princeton University:**

**Cold Spring Harbor, Proteomics Course, November 2007 (Invited speaker)**

Cristea IM, *Proteomic Probes of the Living Interactome*

**8<sup>th</sup> International Symposium on Mass Spectrometry in the Health and Life Sciences: Molecular and Cellular Proteomics, San Francisco, August 2007 (Invited Keynote Speaker)**

Cristea IM, *Walking in the proteomic footprints of viral infection*

**All-Hands Meeting at the National Technology Centers for Networks and Pathways (NTCNP), National Institutes of Health (NIH), March 2007**

Cristea IM, *Recent Advances in Proteomics Integrated with Fluorescence Imaging*

**Turku Centre for Biotechnology, Turku, Finland, January 2007 (Invited speaker)**

Cristea IM, *Novel Approaches for Deciphering the Dynamic Interactome*

**Rockefeller Research Exchange Seminar Series, The Rockefeller University, NY, November 2006**

Cristea IM, *Walking in the proteomic footprints of viral infection*

**Yeast Genetics and Molecular Biology Meeting, Princeton University, NJ, July 2006 (Invited speaker)**

Cristea IM, *New Approaches for Tracking and Elucidating Protein Interactions*

**Cold Spring Harbor, Proteomics Course, July 2006 (Invited speaker)**

Cristea IM, *Proteomic Probes of the Living Interactome*

**City of Hope, CA, July 2006 (Invited speaker)**

Cristea IM, *Tracking and elucidating viral-host protein interactions*

**54<sup>th</sup> American Society for Mass Spectrometry Conference, Seattle, USA, June 2006**

Wang Q, Ding Y, Zhong Y, Kohtz S, Mizushima N, Cristea IM, Rout MP, Heintz N, Yue Z, Chait BT *A novel role of autophagy in axonal degeneration*

**Channels, Receptors and Synapses, Cold Spring Harbor, USA, 2006**

Selimi F, Cristea IM, Heller E, Chait BT, Heintz N *Unraveling the molecular basis of synaptic specificity in the mouse.*

**53<sup>rd</sup> American Society for Mass Spectrometry Conference, San Antonio, USA, June 2005**

Cristea IM, Rout MP, Chait BT *Fluorescent proteins as proteomic probes of the living interactome*

**Functional genomics of the nervous system, Hixton, UK, 2005**

Selimi F, Cristea IM, Heller E, Chait BT, Heintz N *Unraveling the molecular basis of synaptic specificity in the mouse.*

**15<sup>th</sup> Lake Louise Workshop on Tandem Mass Spectrometry, Lake Louise, Canada, 2004**  
Cristea IM, Rout MP, Chait BT *Profiling Protein Localization and Interactions with GFP-Tagged Proteins*

**4<sup>th</sup> Human Frontier Science Program Awardees Annual Meeting, Hakone, Japan, 2004**  
Selimi F, Cristea IM, Wang Q, Heller E, Chait BT, Heintz N *Unravelling the molecular basis of synaptic specificity in the mouse*

**Photonics WEST – BIOS 2002, San Jose, USA, January 2002**  
Cristea IM, Evans S, George E, Gaskell SJ *Proteome changes during dedifferentiation of hepatocytes in primary cultures*

**25<sup>th</sup> British Mass Spectrometry Society Annual Meeting, Southampton, UK, September 2001**

Cristea IM, Evans S, George E, Gaskell SJ *A Proteomics Approach for the Study of the Dedifferentiation of Hepatocytes in Primary Culture*

- **Bordoli award** winning presentation

**In Vitro Toxicology Society Meeting, UK, 2001**

The use of genomics and proteomics in In Vitro Toxicology  
Cristea IM, Evans S, Nemitz D, George E, Gaskell SJ *In Vitro Dedifferentiation of Hepatocytes*

**12<sup>th</sup> Lake Louise Workshop on Tandem Mass Spectrometry, Lake Louise, Canada, 1999**  
Gaskell, SJ, Chalmers MJ, Ferro M, Cristea IM, Gora L, Smith C *New Derivatives of Peptides and First Results from a New Instrument for SID*

**GlaxoWellcome, Ware, UK, October 1999 (Invited Speaker)**

Cristea IM, Gaskell SJ *Protein characterization using enzymatic digestion, tandem mass spectrometry and database searching*

**International Workshop on Multimedia and Computer Networking for Educational Purposes, RO, August 1998**

Cristea IM *Teaching, Learning and Computing in Chemistry*

## **ADDITIONAL ARTICLES PUBLISHED IN CONFERENCE PROCEEDINGS AND ABSTRACTS DELIVERED AT MEETINGS**

**American Society for Virology, 2016 (oral presentation)**

Jean Beltran PM, Mathias RA, Cristea IM  
*Spatial Proteomics during Viral Infection: Defining the Dynamics of Human Cytomegalovirus Interaction with Host Organelles*

**64<sup>th</sup> ASMS Conference on Mass Spectrometry Conference ASMS, San Antonio, June 2016 (oral presentation)**

Todd M. Greco, Frank Conlon, Ileana M. Cristea

*A physical and genetic interaction between the cardiac transcription factor Tbx5 and chromatin remodeling complexes is essential for cardiac septation*

**64<sup>th</sup> ASMS Conference on Mass Spectrometry Conference ASMS, San Antonio, June 2016 (oral presentation)**

Jean Beltran PM, Mathias RA, Cristea IM

*A Systems Approach to Define Organelle Dynamics during Viral Infection*

**64<sup>th</sup> ASMS Conference on Mass Spectrometry Conference ASMS, San Antonio, June 2016**

Elizabeth Rowland, Todd Greco, Caroline Snowden, Ileana Cristea

*Evolutionary conservation of sirtuin lipoamidase activity from bacteria to human mitochondria*

**64<sup>th</sup> ASMS Conference on Mass Spectrometry Conference ASMS, San Antonio, June 2016**

Krystal K Lum, Benjamin A Diner, Joseph W Boerma, Ileana M Cristea

*Bridging virology with proteomics to define mechanisms of cellular immune signaling upon herpesvirus infection*

**St. Jude Children's Research Hospital National Graduate Student Symposium (NGSS), Memphis, TN, March 2016 (talk and poster)**

Marni S. Crow, Ileana M. Cristea.

*The characterization of IFIX as an antiviral factor during infection with DNA viruses*

**12<sup>th</sup> US HUPO Conference, Boston, MA, April 2016 (oral presentation)**

Budayeva HG, Cristea IM.

*Characterization of human sirtuin 2 interactome and substrates*

**12<sup>th</sup> US HUPO conference, Boston, March 2016 (lightning talk and poster)**

Marni S. Crow, Ileana M. Cristea.

*The characterization of IFIX as an antiviral factor during infection with DNA viruses*

**Weinstein Cardiovascular Development Conference, Boston, Massachusetts, 2015**

Lauren Waldron, Junghun Kweon, Kerry M. Dorr, Brenda Temple, Todd Greco, Ileana M. Cristea, Ivan Moskowitz, Frank L. Conlon.

*An evolved interaction between Tbx5 and Chd4 provides mechanistic insight into atrial septation and the Holt-Oram Syndrome*

**Weinstein Cardiovascular Development Conference Technology Fair, Boston, Massachusetts, 2015**

Lauren Waldron, Todd Greco, Leslie Kennedy, Ileana M. Cristea, Frank L. Conlon

*Isolating and characterizing endogenous cardiac interactomes*

**International Symposium on Neurovirology, 2015**

Ren Song, Orkide O. Koyuncu, Todd M. Greco, Benjamin A. Diner, Ileana M. Cristea, Lynn W. Enquist

*Local Interferon Responses in Axons Limit Retrograde Transport of an Alpha Herpesvirus in Neurons*

**UPenn Symposium, Herpesviruses: Pathogenesis and Cancer, Philadelphia, PA, June 2015**

Lum KK, Diner BS, Javitt A, Cristea IM.

*Interactions of the antiviral factor IFI16 mediate immune signaling and HSV-1 immunosuppression*

**63<sup>rd</sup> ASMS Conference on Mass Spectrometry Conference, St. Louis, MO, June 2015**

Diner BA, Li T, Lum KK, Greco TM, Crow MS, Cristea IM.



*A hybrid virology-proteomics approach defines the mechanisms of cellular immune response to viral DNA*

- ASMS Award for Ph.D. student research, covering travel to conference

**63<sup>rd</sup> ASMS Conference on Mass Spectrometry Conference, St. Louis, MO, June 2015**

Crow M, Li T, Diner B, Cristea IM.

*IFIX is a viral DNA sensor acting in defense against human DNA viruses*

**63<sup>rd</sup> ASMS Conference on Mass Spectrometry Conference, St. Louis, MO, June 2015**

Guise A, Luo Y, Muesing M, Cristea IM.

*Dynamic regulation of histone deacetylase 5 (HDAC5) during HIV-1 infection*

**63<sup>rd</sup> ASMS Conference on Mass Spectrometry Conference, St. Louis, MO, June 2015**

Greco TM, Carabetta VJ, Dubnau D, Cristea IM.

*Characterizing Growth Phase-Dependent Changes in the Bacillus subtilis Acetylome and Proteome using Label-Free Quantification*

**St. Jude National Graduate Student Symposium, Memphis, Tennessee, 2015**

Lauren Waldron, Junghun Kweon, Kerry M. Dorr, Brenda Temple, Todd Greco, Ileana M. Cristea, Ivan Moskowitz, Frank L. Conlon.

*Characterization of the TBX5 interactome provides mechanistic insight into Holt-Oram Syndrome*

**US-HUPO Conference, Tempe, AZ, March 2015**

Jean Beltran PM, Cristea IM

*Spatio-temporal dynamics of the host organelle proteome and its alterations upon human cytomegalovirus infection*

- Award for best Ph.D. student poster presentation at US-HUPO

**US-HUPO Conference, Tempe, AZ, March 2015**

Greco TM, Carabetta V, Dubnau D, Cristea IM.

*The acetylome of Bacillus subtilis*

**20<sup>th</sup> Lorne Proteomics Symposium, Australia, February 2015**

Greco TM, Joshi P, Guise AJ, Nesvizhskii AI, Cristea IM.

*Interactome profiling of the human histone deacetylases: Insights into the stability and regulation of chromatin remodeling complexes*

- Travel Award

**American Society for Matrix Biology (ASMB), October 2014**

Pastino A, Greco TM, Mathias R, Cristea IM, Schwarzbauer J.

*Stimulatory effects of advanced glycation endproduct (AGE) modified fibronectin on extracellular matrix assembly*

**Herpesvirus Symposium, University of Pennsylvania, Pennsylvania, PA, June 2014**

Jean Beltran J, Cristea IM.

*Tracking the Impact of HCMV Infection on Cellular Organelles: Host Organelle Proteomics*

**62<sup>nd</sup> ASMS Conference on Mass Spectrometry Conference, Baltimore, June 2014**

Mathias R, Lefebvre, Cristea IM.

*The mitochondrial deacetylase SIRT3 is a host defense factor hijacked during viral infection*

**62<sup>nd</sup> ASMS Conference on Mass Spectrometry Conference, Baltimore, June 2014**

Greco TM, Oliveira B, Lin A, Grunewald K, Cristea IM.

*Development of isotope-labeled viral protein concatemers for targeted, absolute quantification of all herpes simplex virus structural proteins during infection*

**62<sup>nd</sup> ASMS Conference on Mass Spectrometry Conference, Baltimore, June 2014**

Diner BA, Li T, Fuesler J, Crow M, Cristea IM.

*The protein interactome of critical viral DNA sensors reveals new insights into innate immunity*

**62<sup>nd</sup> ASMS Conference on Mass Spectrometry Conference, Baltimore, June 2014**

Jean Beltran P, Mathias R, Greco TM, Cristea IM.

*Tracking the Impact of Viral Infection on Cellular Organelle Remodeling using Quantitative Organelle Proteomics*

**62<sup>nd</sup> ASMS Conference on Mass Spectrometry Conference, Baltimore, June 2014**

Joshi P, Guise A, Quach O, Giguere S, Kong J, Cristea IM.

*A Proteomic Profile of Deleted in Breast Cancer 1 (DBC1) and its Role in Transcriptional Regulation*

**Xenopus Meeting in Asilomar, 2014**

Christopher E. Slagle, Todd Greco, Ileana Cristea, and Frank L. Conlon

*Defining the mechanisms of transcriptional regulation by the T-box transcription factor Eomesodermin during early cardiac development*

**Society for Developmental Biology National Meeting, Seattle, Washington, 2014**

Lauren Waldron, Junghun Kweon, Kerry M. Dorr, Brenda Temple, Todd Greco, Ileana M. Cristea, Ivan Moskowitz, Frank L. Conlon

*Characterization of the TBX5 interactome provides mechanistic insight into Holt-Oram Syndrome*

**American Society for Microbiology, Boston, May 17-20, 2014**

Carabetta VJ, Greco TM, Cristea IM, Dubnau D

*Characterization of the Bacillus subtilis acetylome*

**Spring Seminar Series, Montclair State University, April 2014**

Marni S. Crow, Benjamin A. Diner, Tuo Li, John A. Fuesler, Jennifer Wang, and Ileana M. Cristea

*Proteomic investigation of immune response-regulator PYHIN proteins*

**38<sup>th</sup> Annual International Herpesvirus Workshop (IHW), Grand Rapids, August 2013**

Tuo Li, Ileana M. Cristea

*Human Cytomegalovirus Tegument Protein pUL83 blocks IFI16-mediated Nuclear DNA Sensing*

**61<sup>st</sup> ASMS Conference on Mass Spectrometry Conference, Minneapolis, Minnesota, June 2013**

Benjamin A. Diner, Tuo Li, John Fuesler, and Ileana M. Cristea

*Defining DNA sensing mechanisms during host innate immunity and viral immunosuppression*

**61<sup>st</sup> ASMS Conference on Mass Spectrometry Conference, Minneapolis, Minnesota, June 2013**

Amanda Guise; Rommel Mathias; Todd Greco; Irene Zhang; Ileana M. Cristea

*Dynamic phosphorylation regulates histone deacetylase localization, interactions, and cell cycle-dependent functions*

**61<sup>st</sup> ASMS Conference on Mass Spectrometry Conference, Minneapolis, Minnesota, June 2013**

Rommel Mathias; Todd Greco; Ileana M. Cristea

*Taking control: Human cytomegalovirus invades host cellular organelles for virion assembly, maturation, and release*

**Weinstein Cardiovascular Development Conference, Tuscon, Arizona, 2013**

Lauren Waldron, Kerry Dorr, Ileana M. Cristea, Ivan Moskowitz, Frank L. Conlon  
*Composition and function of the TBX5 cardiac transcription complex*

**Proceedings of the US HUPO 9<sup>th</sup> Annual Conference, Baltimore, MD, March 2013**

Greco TM, Preeti J, Guise A, Luo Y, Yu F, Nesvizhskii A, Cristea IM. *The Interactome of Human Histone Deacetylases: Insights into the Stability and Cellular Functions of Chromatin Remodeling Complexes*

**Proceedings of the US HUPO 9<sup>th</sup> Annual Conference, Baltimore, MD, March 2013**

Diner B.A., Li T., Fuesler J., and Cristea I.M. *Proteomic definition of the balance between host innate immunity and virus-mediated immunosuppression.*

**Proceedings of the US HUPO 9<sup>th</sup> Annual Conference, Baltimore, MD, March 2013**

Mathias R, Greco TM, Cristea IM. *Temporal and Spatial Proteomic Analysis of Human Cytomegalovirus Infection, Assembly, and Egress*

**Proceedings of the US HUPO 9<sup>th</sup> Annual Conference, Baltimore, MD, March 2013**

Nesvizhskii A . et al. *The CRAPome: A Contaminant Repository for Affinity Purification Mass Spectrometry Data*

**Proceedings of the 60<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Vancouver, May 2012**

Preeti Joshi; Todd M. Greco; Amanda Guise; Yang Luo; Fang Yu; Hyungwon Choi; Alexey Nesvizhskii; Ileana M. Cristea *Building the functional interactome landscape of the human histone deacetylase family*

**Proceedings of the 60<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Vancouver, May 2012**

Amanda Guise; Fang Yu; Todd Greco; Irene Zhang; Ileana M. Cristea *A Dynamic Phosphorylation Switch Regulates Cell-cycle Dependent Deacetylase Function*

**Proceedings of the 60<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Vancouver, May 2012**

Yuan-Chin Tsai; Todd M. Greco; Apaporn Boonmee; Yana Miteva; Ileana M. Cristea *Functional Proteomics Establishes the Interaction of SIRT7 with Chromatin Remodeling Complexes and Expands its Role in RNA Pol I Transcription*

Proceedings of the 60<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Vancouver, May 2012

**Yana V. Miteva; Ileana M. Cristea** *Building a regulatory network of SIRT6 interactions and posttranslational modifications*

**Proceedings of the 60<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Vancouver, May 2012**

Hanna Budayeva; Emre Koyuncu; Yana Miteva; Thomas Shen; Ileana M. Cristea  
*Investigating the p53-dependent roles of SIRT1 and SIRT2 in regulating human cytomegalovirus replication*

**Proceedings of the 60<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Vancouver, May 2012**

Tuo Li; Benjamin Diner; Jin Chen; Ileana M. Cristea  
*Acetylation modulates cellular distribution and DNA sensing ability of interferon-inducible protein IFI16*

**Proceedings of the 60<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Vancouver, May 2012**

Benjamin Diner; Tuo Li; John Fuesler; Ileana M. Cristea

*Investigating the intrinsic defense roles of HIN200 proteins AIM2 and IFI16 by constructing functional interaction networks*

**Proceedings of the 60<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Vancouver, May 2012**

Erik M. Lenarcic; Todd M. Greco; Ileana M. Cristea; Sunnie R. Thompson

*TUX-MS: A cell-based proteomic method to identify protein-RNA interactions during viral infection using tandem mass spectrometry*

**Proceedings of the 60<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Vancouver, May 2012**

Todd M. Greco; Aaron E. Lin; Iosune Ibricic; Nayab Malik; Kay Gruenewald; Ileana M. Cristea

*Comparison of tandem mass tag strategies for quantitative analysis of HSV-1 virion protein assemblies*

**Proceedings of the 60<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Vancouver, May 2012**

Daniell L. Rowles; Yuan-Chin Tsai; Justin Y. Yeh; Aaron E. Lin; Ileana M. Cristea *Investigating spatial-temporal virus-host interactions of the capsid protein VP26 during HSV-1 infection*

**Proceedings of the 60<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Vancouver, May 2012**

Aaron E. Lin; Todd Greco; Ileana M. Cristea *A Quantitative Proteomic Investigation of Spatial-Temporal Interactions of the Outer Tegument Protein pUL46 during HSV-1 Infection*

**Proceedings of the 60<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Vancouver, May 2012**

Erin Kaltenbrun; Todd M. Greco; Ileana M. Cristea; Frank Conlon *A Proteomic Investigation of the Tbx20 Transcriptional Complex in Embryonic Heart Tissue*

**Proceedings of the US HUPO 8<sup>th</sup> Annual Conference, San Francisco, CA, March 2012**

Li T., Diner B.A., Chen J., and Cristea I.M. *Acetylation Modulates Cellular Distribution and DNA Sensing Ability of Interferon-Inducible Protein IFI16.*

Abstract for **Northeast Symposium on Proteomics and Protein Chemistry**, Cornell University, New York, USA, November 2011

Cristea IM, *A Proteomic Perspective of the Dynamic Interplay between Viruses and Hosts*

Abstract for the “**Proteomics, Metabolomics and Beyond**” Symposium at National Institute of Basic Biology (NIBB), Okazaki, Japan, November 2011

Cristea IM, *Discovery of Antiviral Roles of Mammalian Sirtuins: A Systems Biology View*

**Annual Meeting of the International Graduate School in Molecular Medicine, University of Ulm, Ulm, Germany. Oct 2011.**

Conlon, F. L., Cristea, I., Greco, T., and Kaltenbrun, E. *TBX20 and early heart development.* Proceedings of the

**Proceedings of the 10<sup>th</sup> Annual HUPO World Congress, Geneva, Switzerland, September 2011**

Cristea IM, *Decoding the Spatial and Temporal Regulation of Protein Interactions using Isobaric Tags*

**Proceedings of the 10<sup>th</sup> International Symposium on Mass Spectrometry in the Health and Life Sciences: Molecular and Cellular Proteomics, San Francisco, USA, August 2011**

Cristea IM, *Discovery of Antiviral Roles of Mammalian Sirtuins: A Systems Biology View*

**Abstract for the Workshop on Genomics and Proteomics of Oncogenic Viruses, Syria, USA, August 2011**

Cristea IM, *A Proteomics Perspective of the Spatial and Temporal Virus-Host Interplay*

**Helicases & Nucleic Acid Translocases: Structure, Mechanism, Function, & Roles in Human Diseases, Steamboat Springs, July 31-Aug 5, 2011**

Sabouri N\*, McDonald KR\*, Cristea IM, Zakian VA (\*-co-first), *The essential S. pombe Pfh1 DNA helicase interacts with the replisome and promotes replication fork progression through tRNA genes and sites containing known replication fork barriers*

**Proceedings of the 59<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Denver, USA, June 2011**

Tuo Li; Benjamin A. Diner; Leslie Alexis; Ileana M. Cristea *Dynamic Protein Interactomes of Human Interferon Inducible HIN200 Proteins*

**Proceedings of the 59<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Denver, USA, June 2011**

Amanda J. Guise; Todd M. Greco; Mark Amirault; Ileana M. Cristea *The dynamic phosphorylation of class IIa histone deacetylases is implicated in both conserved and divergent functions*

**Proceedings of the 59<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Denver, USA, June 2011**

Todd M. Greco; Aaron E. Lin; Ileana M. Cristea *A proteomic investigation of intermediate HSV-1 virion structures containing the inner tegument protein pUL37*

**Proceedings of the 59<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Denver, USA, June 2011**

Daniell L. Rowles; Todd M. Greco; Aaron E. Lin; Ileana M. Cristea *A Proteomics Characterization of VP26 Capsid Protein during Herpes Simplex Virus Type 1 Assembly*

**Proceedings of the 59<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Denver, USA, June 2011**

Emre Koyuncu; Yana Miteva; Hanna Budayeva; Thomas Shenk; Ileana M. Cristea *Mammalian Sirtuins SIRT1-7: A New Family of Antiviral Genes*

**Proceedings of the 59<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Denver, USA, June 2011**

Udayan Guha<sup>1</sup>; Todd M. Greco<sup>2</sup>; Abhilash Venugopalan<sup>1</sup>; Harold E. Varmus<sup>3, 4</sup>; Ileana M. Cristea<sup>2</sup> *Proteomic analyses of EGFR-interacting proteins to elucidate differences in signal transduction downstream of lung cancer-specific mutant EGFRs*

**Proceedings of the 59<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Denver, USA, June 2011**

Karin R. McDonald ; Virginia A. Zakian; Ileana M. Cristea *Replication fork association of Schizosaccharomyces pombe DNA helicase Pfh1*

**Proceedings of the 59<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Denver, USA, June 2011**

Erin Kaltenbrun<sup>1</sup>; Todd Greco<sup>2</sup>; Ileana M. Cristea<sup>2</sup>; Frank Conlon<sup>1</sup> *Characterization and Function of the Tbx20 Cardiac Transcriptional Complex*

**Proceedings of the International Fission Yeast Meeting, Boston, MA, USA, June 2011**

McDonald KR, Sabouri N, Cristea IM, Zakian VA, *Telomere association of S. pombe DNA helicase Pfh1*

**The 6<sup>th</sup> International S. pombe meeting, Boston, June 25-30, 2011**

Sabouri N\*, McDonald KR\*, Cristea IM, Zakian VA (\*-co-first), *Pfh1 interacts with the replisome and promotes fork progression through natural fork barriers*

**NYAS, June 2011**

Sabouri N\*, McDonald KR\*, Cristea IM, Zakian VA (\*-co-first), *The essential S. pombe Pfh1 DNA helicase interacts with the replisome and promotes replication fork progression through tRNA genes and sites containing known replication fork barriers*

**Abstract for the NIH Proteomics Interest Group, NIH, May 2011**

Cristea IM, *Dynamic Intricacies of Viral Infection: A Proteomics Perspective*

**Abstract for Princeton University, Reunion Seminar, May 2011**

Cristea IM, *Understanding the Dynamic Intricacies of Viral Infection from a Proteomics Perspective*

**Abstract for the Annual Meeting for the Human Frontier Science Program, University of Oxford, May 2011**

Cristea IM, *A hybrid approach to revealing intermediate structures of Herpes Simplex Virus*

**Abstract for the Avant-Garde Awardee Workshop, NIH National Institute of Drug Abuse, April 2011**

Cristea IM, *Understanding the Dynamic Intricacies of Viral Infection from a Proteomic Perspective*

**Proceedings of the US HUPO Conference, Raleigh NC, March 2011 (Invited Speaker)**

Cristea IM, *A Proteomic Perspective of the Dynamic Interplay between Viruses and Hosts*

**Proceedings of the Pittcon International Conference, Atlanta, March 2011**

Cristea IM, *A Proteomic Perspective of the Dynamic Interplay between Viruses and Hosts* (talk part of the session on *Driving Biological Discovery Using Proteomics*)

**University of Maryland, Chemistry-Biology Interface Seminar Series, March 2011**

Cristea IM, *At the Dynamic Interface between Viruses and Hosts: A Proteomic Perspective*

**Proceedings of the ABRF International Symposium of the Association of Biomolecular Resource Facilities, San Antonio, February 2011**

Cristea IM, *The Virus-Host Interface: Exploring Dynamic Protein Interactions via Targeted Proteomics*

**Proceedings of the 16<sup>th</sup> Proteomics Symposium, Australasian Proteomics Society, Lorne, Australia, February 2011**

Cristea IM, *A Proteomic Perspective of the Dynamic Interplay between Viruses and Hosts*

**Proceedings of the Annual Meeting of the Japanese Biochemistry and Molecular Biology Society, Kobe, Japan, December, 2010**

Conlon, F. L., Cristea, I., Greco, T., and Kaltenbrun, E. *Regulation of TBX20 Expression and Activity in Heart Development.*

**Proceedings of the 37<sup>th</sup> FACSS (The Federal of Analytical Chemistry and Spectroscopy Societies), Raleigh, NC, USA, October 2010**

Cristea IM, *A Proteomic Perspective of the Dynamic Interplay between Viruses and Hosts*

**Proceedings of the 58<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Salt Lake City, May 2010**

Valerie J. Carabetta ; Tuo Li; Anisha Shakya; Todd M. Greco; Ileana M. Cristea *Integrating Lys-N proteolysis and N-terminal guanidination for improved fragmentation and relative quantification of singly-charged ions*

**Proceedings of the 58<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Salt Lake City, May 2010**

Yang Luo; Yuan-Chin Tsai; Laura-Mae Britton; Fang Yu; Ileana M. Cristea *Proteomic Characterization of Histone Deacetylase 10*

**Proceedings of the 58<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Salt Lake City, May 2010**

Yana V. Miteva; Fang Yu; Ileana M. Cristea *Investigating the role of phosphorylation in regulating the functions of mammalian sirtuin 6*

**Proceedings of the 58<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Salt Lake City, May 2010**

Charles E. Cowles; Martin F. Semmelhack; Thomas J. Silhavy; Ileana M. Cristea *Mass Spectrometry Reveals that the Two Forms of Lpp Represent Distinct Membrane Topologies in Escherichia coli.*

**Proceedings of the 58<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Salt Lake City, May 2010**

Karin R. McDonald; Virginia A. Zakian; Ileana M. Cristea *Protein interactions and post-translational modification of the Schizosaccharomyces pombe Pif1 family DNA helicase, Pfh1*

**Proceedings of the 58<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Salt Lake City, May 2010**

Tal Kramer; Anna Arnaudo; Lynn W. Enquist; Ileana M. Cristea *Proteomic Analysis of Pseudorabies Virus Extracellular Virions*

**Proceedings of the 58<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Salt Lake City, May 2010**

Kelly Molloy; Mario Niepel; Ileana M. Cristea; Rosemary Williams; Jeremy Luban; Brian Chait; Michael Rout; Caterina Strambio De Castillia<sup>3</sup> *Interactome of the Nuclear Basket Proteins of the Yeast Nuclear Pore Complex*

**Conference Abstract for Proteomics 2010 meeting, Children's Hospital Boston, Boston, USA, April 2010**

Cristea IM, *A Proteomic Perspective of the Dynamic Interplay between Viruses and Hosts*

**Abstract for the NIH All-Hands Meeting at the National Technology Centers for Networks and Pathways, NIH, USA, March 2010**

Cristea IM, *Targeted Proteomic Approaches Provide Insights into Dynamics of Viral Infection*

**Proceedings of the 5<sup>th</sup> AOHUPO Congress, Hyderabad, India, February 2010**

Cristea IM, *Targeted Proteomic Approaches to Study Viral Infections*

**Proceedings of the 57<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Philadelphia, June 2009**

Yang Luo; Tuo Li; Fang Yu; A. Chase Palish; Tal Kramer; Ileana M. Cristea *The performance of a MALDI LTQ Orbitrap and its application to the study of protein complexes*

**Proceedings of the 57<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Philadelphia, June 2009**

Karin R. McDonald; Virginia A. Zakian; Ileana M. Cristea *Protein interactions of the telomerase holoenzyme in Saccharomyces cerevisiae and Schizosaccharomyces pombe*

**Proceedings of the 57<sup>th</sup> ASMS Conference on Mass Spectrometry Conference, Philadelphia, USA June 2009**

Valerie J. Carabetta; Thomas J. Silhavy; Ileana M. Cristea *Novel interacting partners of the Escherichia coli poly(A) polymerase I (PAPI): in vivo evidence for interaction with the degradosome*

**Proceedings of the 56<sup>th</sup> American Society for Mass Spectrometry Conference, Denver, USA, June 2008**

Cristea IM, Terhune SS, Moorman NJ, Rout M, Shenk T, Chait BT *"A novel cytomegalovirus protein interacts with the histone deacetylase-containing NuRD complex to alter cellular gene expression and promote virus replication"*

**Proceedings of the 56<sup>th</sup> American Society for Mass Spectrometry Conference, Denver, USA, June 2008**

Luo Y, Cristea IM, Rout M, Chait BT, Muesing M *"Revealing the HIV-1-Host Interactome"*

**Proceedings of the 56<sup>th</sup> American Society for Mass Spectrometry Conference, Denver, USA, June 2008**

Glavy J, Cristea IM, Fenyo D, Chait BT *"Stable Isotopic Labeling Studies to Determine the Protein Turnover within the Nuclear Pore Nup107-160 Subcomplex"*

**Proceedings of the 55<sup>th</sup> American Society for Mass Spectrometry Conference, Indianapolis, USA, June 2007**

Cristea IM, Moorman NJ, Terhune SS, Rout MP, Shenk T, Chait BT *"A Genomic-Proteomic Approach: Cytomegalovirus Ensures Human Cell Growth During Infection"*

**Proceedings of the 55<sup>th</sup> American Society for Mass Spectrometry Conference, Indianapolis, USA, June 2007**

Glavy JS, Cristea IM, Krutchinsky A, Blobel G, Chait BT *Mass Spectrometry Studies of the Cell-Cycle Dependent Phosphorylation of the Nuclear Pore Nup107-160 Subcomplex*

**Abcam Chromatin Structure and Function meeting, Punta Cana, Dominican Republic, December 5-8<sup>th</sup> 2006**

Goldberg AD, Urnov FD, Cristea IM, Yang C, Miller J, Ramos C, Seandel M, James D, Hake SB, Scambler P J, Chait BT, Gregory PD, Rafii S, Allis CD *"HIRA-dependent incorporation of histone H3.3 marks active genes in mouse embryonic stem cells"*

**31<sup>st</sup> International Herpesvirus Workshop, Seattle, WA, USA, August 2006**

Terhune SS, Cristea IM, Moorman NJ, Rout MP, Chait BT, Shenk T *"HCMV pUL38 functions through interacting with HDAC1 in the NuRD complex during infection"*

**54<sup>th</sup> American Society for Mass Spectrometry Conference, Seattle, USA, June 2006**

Cristea IM, Carroll J-WN, Rout MP, Rice CM, MacDonald MR, Chait BT *"Tracking infection dynamics: new approaches for studying viral-host interactions"*

**52<sup>nd</sup> American Society for Mass Spectrometry Conference, Nashville, U.S.A., May 2004**

Cristea IM, Sorice M, Gaskell SJ, Degli Esposti M *"Deciphering the role of mitochondrial lipids in cell-death signaling"*

**33<sup>rd</sup> Society for Neuroscience Conference, New Orleans, USA, November 2003**

Selimi F, Wang Q, Cristea I, Chait BT, Heintz N *"Analysis of GRID2 function using BAC transgenic mice"*



**51<sup>st</sup> American Society for Mass Spectrometry Conference, Montreal, Canada, June 2003**

Cristea IM, Evans S, George E, Gaskell SJ *"Insights into Phospholipidosis-Induced Changes in the Hepatocyte Proteome"*

**50<sup>th</sup> American Society for Mass Spectrometry Conference, Orlando, USA, June 2002**

Cristea IM, Evans S, George E, Nemitz D, Gaskell SJ *"Drug-Induced Phospholipidosis in Hepatocytes: A Proteomics Approach"*

**Mass Spectrometry for Protein and Peptide Scientists Workshop, UMIST, UK, January 2002**

Cristea IM, Evans S, George E, Gaskell SJ *"Study of the Dedifferentiation of Hepatocytes in Primary Cultures using 2D PAGE and MS"*

**Mass Spectrometry for Protein and Peptide Scientists Workshop, UMIST, UK, January 2002**

Mohammed S, Cristea IM, Brancia F, Oliver SG, Catlow D, Gaskell SJ *"Improved Characterisation and Quantification of Proteins using a novel Multifunctional Chemical Derivatisation"*

**1<sup>st</sup> International Conference of the Chemical Societies of the South-East European Countries Halkidiki, Greece, June 1998**

Cristea IM, Dickinson JM *"Palladium Catalysed Self-Coupling Reactions of Terminal Alkynes"*