

Employment

Research output

3D microfluidic liver cultures as a physiological preclinical tool for hepatitis B virus infection

Ortega-Prieto, A. M., Skelton, J. K., Wai, S. N., Large, E., Lussignol, M., Vizcay-Barrena, G., Hughes, D., Fleck, R. A., Thursz, M., Catanese, M. T. & Dorner, M., 31 Dec 2018, In: *Nature Communications*. 9, 15 p., 682.

The interferon inducible isoform of NCOA7 inhibits endosome-mediated viral entry

Doyle, T., Moncorgé, O., Bonaventure, B., Pollpeter, D., Lussignol, M., Tauziet, M., Apolonia, L., Catanese, M. T., Goujon, C. & Malim, M., 1 Dec 2018, In: *Nature Microbiology*. 3, 12, p. 1369–1376

Proteomics of HCV virions reveals an essential role for the nucleoporin Nup98 in virus morphogenesis

Lussignol, M., Kopp, M., Molloy, K., Vizcay-Barrena, G., Fleck, R. A., Dorner, M., Bell, K. L., Chait, B. T., Rice, C. M. & Catanese, M. T., 1 Mar 2016, In: *Proceedings of the National Academy of Sciences of the United States of America*. 113, 9, p. 2484-2489 6 p.

Advances in experimental systems to study hepatitis C virus in vitro and in vivo

Catanese, M. T. & Dorner, M., 1 May 2015, In: *Virology*. 479-480, p. 221-233 13 p.

Hepatitis C virus RNA functionally sequesters miR-122

Luna, J. M., Scheel, T. K. H., Danino, T., Shaw, K. S., Mele, A., Fak, J. J., Nishiuchi, E., Takacs, C. N., Catanese, M. T., de Jong, Y. P., Jacobson, I. M., Rice, C. M. & Darnell, R. B., 12 Mar 2015, In: *Cell*. 160, 6, p. 1099-1110 12 p.

Role of hypervariable region 1 for the interplay of hepatitis C virus with entry factors and lipoproteins

Bankwitz, D., Vieyres, G., Hueging, K., Bitzegeio, J., Doepeke, M., Chhatwal, P., Haid, S., Catanese, M. T., Zeisel, M. B., Nicosia, A., Baumert, T. F., Kaderali, L. & Pietschmann, T., Nov 2014, In: *Journal of virology*. 88, 21, p. 12644-12655 12 p.

Successful anti-SR-BI mAb therapy in humanized mice after challenge with HCV variants with in vitro resistance to SR-BI-targeting agents

Vercauteren, K., Van Den Eede, N., Mesalam, A. A., Belouzard, S., Teresa Catanese, M., Bankwitz, D., Wong-Staal, F., Cortese, R., Dubuisson, J., Rice, C. M., Pietschmann, T., Leroux-Roels, G., Nicosia, A. & Meuleman, P., 2014, (E-pub ahead of print) In: *Hepatology*. N/A, N/A, p. N/A 24 p., N/A.

Completion of the entire hepatitis C virus life cycle in genetically humanized mice

Dorner, M., Horwitz, J. A., Donovan, B. M., Labitt, R. N., Budell, W. C., Friling, T., Vogt, A., Catanese, M. T., Satoh, T., Kawai, T., Akira, S., Law, M., Rice, C. M. & Ploss, A., 12 Sept 2013, In: *NATURE*. 501, 7466, p. 237-241 5 p., N/A.

Different Requirements for Scavenger Receptor Class B Type I in Hepatitis C Virus Cell-Free versus Cell-to-Cell Transmission

Catanese, M. T., Loureiro, J., Jones, C. T., Dorner, M., Von Hahn, T. & Rice, C. M., 1 Aug 2013, In: *Journal of Virology*. 87 , 15, p. 8282-8293 12 p., N/A.

Ultrastructural analysis of hepatitis C virus particles

Catanese, M. T., Uryu, K., Kopp, M., Edwards, T. J., Andrus, L., Rice, W. J., Silvestry, M., Kuhn, R. J. & Rice, C. M., 4 Jun 2013, In: *Proceedings of the National Academy of Sciences of the United States of America*. 110, 23, p. 9505-10 6 p.

A Human monoclonal antibody targeting scavenger receptor class B type I precludes hepatitis C virus infection and viral spread in vitro and in vivo

Meuleman, P., Catanese, M. T., Verhoye, L., Desombere, I., Farhoudi, A., Jones, C. T., Sheahan, T., Grzyb, K., Cortese, R., Rice, C. M., Leroux-roels, G. & Nicosia, A., 1 Feb 2012, In: *Hepatology*. 55, 2, p. 364-372 9 p., N/A.

Expression of paramyxovirus V proteins promotes replication and spread of hepatitis C virus in cultures of primary human fetal liver cells

Andrus, L., Marukian, S., Jones, C. T., Catanese, M. T., Sheahan, T. P., Schoggins, J. W., Barry, W. T., Dustin, L. B., Trehan, K., Ploss, A., Bhatia, S. N. & Rice, C. M., 1 Dec 2011, In: *Hepatology*. 54, 6, p. 1901-1912 12 p., N/A.

A genetically humanized mouse model for hepatitis C virus infection

Dorner, M., Horwitz, J. A., Robbins, J. B., Barry, W. T., Feng, Q., Mu, K., Jones, C. T., Schoggins, J. W., Catanese, M. T., Burton, D. R., Law, M., Rice, C. M. & Ploss, A., 9 Jun 2011, In: *NATURE*. 474, 7350, p. 208-211 4 p., N/A.

Real-time imaging of hepatitis C virus infection using a fluorescent cell-based reporter system

Jones, C. T., Catanese, M. T., Law, L. M. J., Khetani, S. R., Syder, A. J., Ploss, A., Oh, T. S., Schoggins, J. W., Macdonald, M. R., Bhatia, S. N. & Rice, C. M., Feb 2010, In: *Nature Biotechnology*. 28, 2, p. 167-171 5 p., N/A.

Role of Scavenger Receptor Class B Type I in Hepatitis C Virus Entry: Kinetics and Molecular Determinants

Catanese, M. T., Ansuini, H., Graziani, R., Huby, T., Moreau, M., Ball, J. K., Paonessa, G., Rice, C. M., Cortese, R., Vitelli, A. & Nicosia, A., 1 Jan 2010, In: *Journal of Virology*. 84, 1, p. 34-43 10 p., N/A.

High-Avidity Monoclonal Antibodies against the Human Scavenger Class B Type I Receptor Efficiently Block Hepatitis C Virus Infection in the Presence of High-Density Lipoprotein

Catanese, M. T., Graziani, R., Von Hahn, T., Moreau, M., Huby, T., Paonessa, G., Santini, C., Luzzago, A., Rice, C. M., Cortese, R., Vitelli, A. & Nicosia, A., 1 Aug 2007, In: *Journal of Virology*. 81, 15, p. 8063-8071 9 p., N/A.

AROS-29 is involved in adaptive response to oxidative stress

Gesualdi, N. M., Chirico, G., Catanese, M. T., Pirozzi, G. & Esposito, F., 2006, In: *Free Radical Research*. 40, 5, p. 467-476 10 p., N/A.

Awards

Dissecting the role of nucleoporins in the life cycle of positive-strand RNA viruses

Catanese, M. T. (Primary Investigator) & Fleck, R. (Co-Investigator)

KHP King's Health Partners: £77,700.00

1/10/2016 → 30/09/2017