

**2021年****Infection with SARS - CoV - 2 variant B.1.1.7 detected in a group of dogs and cats with suspected myocarditis**

Luca Ferasin, Matthieu Fritz, Heidi Ferasin, Pierre Becquart, Sandrine Corbet, Meriadeg Ar Gouilh, Vincent Legro, Eric M Leroy

Veterinary Record Volume (2021) 189, Issue 9. <https://doi.org/10.1002/vetr.944>

**TOMM40 RNA Transcription in Alzheimer's Disease Brain and Its Implication in Mitochondrial Dysfunction**

Eun-Gyung Lee, Sunny Chen, Lesley Leong, Jessica Tulloch, Chang-En Yu

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**Bacterial Communities in the Embryo of Maize Landraces: Relation with Susceptibility to Fusarium Ear Rot**

Alessandro Passera, Alessia Follador, Stefano Morandi, Niccolò Miotti, Martina Ghidoli, Giovanni Venturini, Fabio Quaglino, Milena Brasca, Paola Casati, Roberto Pilu, Davide Bulgarelli

Microorganisms (2021), 9(11), 2388. <https://doi.org/10.3390/microorganisms9112388>

**A Secreted Chorismate Mutase from Xanthomonas arboricola pv. juglandis Attenuates Virulence and Walnut Blight Symptoms**

Renata de A. B. Assis, Cíntia H. D. Sagawa, Paulo A. Zaini, Houston J. Saxe, Phillip A. Wilmarth, Brett S. Phinney, Michelle Salemi, Leandro M. Moreira, Abhaya M. Dandekar Int. J. Mol. Sci. (2021), 22(19), 10374.

<https://doi.org/10.3390/ijms221910374>

**An alternative approach for bioanalytical assay development for wastewater-based epidemiology of SARS-CoV-2**

Boogaerts Tim, Lotte Jacobs, Naomi De Roeck, Siel Van den Bogaert, Bert Aertgeerts, Lies Lahousse, Alexander L.N. van Nuijs, Peter Delputte

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**Digital CRISPR-based method for the rapid detection and absolute quantification of nucleic acids**

Xiaolin Wu, Joshua K. Tay, Chuan Keng Goh, Cheryl Chan, Yie Hou Lee, Stacy L. Springs, De Yun Wang, Kwok Seng Loh, Timothy K. Lu, Hanry Yu

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**Clinical and molecular characterization of thyroid cancer when seen as a second malignant neoplasm**

Kristen Romanelli, Justin Wells, Aneeta Patel, Maria Mendonca Torres, John Costello, Kirk Jensen, Vasyl Vasko

Ther Adv Endocrinol Metab. (2021);12. [doi: 10.1177/20420188211058327](https://doi.org/10.1177/20420188211058327)

**FGFR testing from matched tissue and urine samples within the prospective real world clinico-pathological register trial BRIDGister.**

Ralph M. Wirtz, Richard Watts, Ronny Kellner, Reinhard Ortmann, Torsten Horns, Daniel Enderle, Lisa Meyer, Mikkel Noerholm, Mario Morken, Elke Veltrup, Roland Hake, Sebastian Eidt, Jenny Roggisch, Stefan Koch, Thorsten Ecker

Journal of Clinical Oncology (2021), 39, no. 15\_suppl. [https://ascopubs.org/doi/abs/10.1200/JCO.2021.39.15\\_suppl.e16532](https://ascopubs.org/doi/abs/10.1200/JCO.2021.39.15_suppl.e16532)

**Detection of Vector Copy Number in Bicistronic CD19xCD22 CAR T Cell Products with Digital PCR**

Lindsey A. Murphy, Russell Marians, Mark Eric Kohler, Terry J. Fry, Amanda C. Winters

Blood (2021), Volume 138, Supplement 1, 23. <https://doi.org/10.1182/blood-2021-153889>

**A duplex PCR assay for authentication of Ocimum basilicum L. and Ocimum tenuiflorum L in Tulsi churna  
Author links open overlay panel**

Tasnim Travadi, Sonal Sharma, Ramesh Pandit, Mital Nakrani, Chaitanya Joshi, Madhvi Joshi

Food Control (2021), Volume 137. <https://doi.org/10.1016/j.foodcont.2021.108790>

### **Fetal RHD genotyping with parallel estimation of fetal and total fraction using digital PCR**

A. Orzinska, M. Krzemienowska, S. Purchla-Szepiła, K. Guz

Vox Sanguinis (2021), Volume 116, Issue S1. <https://doi.org/10.1111/vox.13117>

### **Plateaus, rebounds and the effects of individual behaviours in epidemics**

Henri Berestycki, Benoît Desjardins, Bruno Heintz & Jean-Marc Oury

Scientific Reports volume (2021), 11, Article number: 18339. <https://doi.org/10.1101/2021.03.26.21254414>

## **2022年**

### **Digital PCR can augment the interpretation of RT-qPCR Cq values for SARS-CoV-2 diagnostics**

Alexandra S. Whale, Eva K. von der Heide, Max Kohlenberg, Anja Brinckmann, Silke Baedker, Oezlem Karalay, Ana Fernandez-Gonzalez, Eloise J. Busby, Stephen A. Bustin, Heiko Hauser, Andreas Missel, Denise M. O'Sullivan, Jim F. Huggett, Michael W. Pfaffl, Tania Nolan

Methods (2022), Volume 201. <https://doi.org/10.1016/j.ymeth.2021.08.006>

### **Evaluation of process limit of detection and quantification variation of SARS-CoV-2 RT-qPCR and RT-dPCR assays for wastewater surveillance**

Warish Ahmed, Aaron Bivins, Suzanne Metcalfe, Wendy J.M. Smith, Matthew E. Verbyla, Erin M. Symonds, Stuart L. Simpson

Water Research (2022), Volume 213. <https://doi.org/10.1016/j.watres.2022.118132>

### **A Warm-start Digital CRISPR-based Method for the Quantitative Detection of Nucleic Acids**

Xiaolin Wu, Yie Hou Lee, Timothy K. Lu, Hanry Yu

Analytica Chimica Acta (2022), Volume 1196, 1. <https://doi.org/10.1101/2021.06.10.21258725>

### **Comparison of RT-qPCR and RT-dPCR Platforms for the Trace Detection of SARS-CoV-2 RNA in Wastewater**

Warish Ahmed\*, Wendy J. M. Smith, Suzanne Metcalfe, Greg Jackson, Phil M. Choi, Mary Morrison, Daniel Field, Pradip Gyawali, Aaron Bivins, Kyle Bibby, and Stuart L. Simpson

ACS ES&T Water (2022). <https://doi.org/10.1021/acsestwater.1c00387>

### **Noninvasive diagnostics of fetal KEL\*01.01 allele from maternal plasma of immunized women using digital PCR protocols**

Agnieszka Orzińska, Magdalena Krzemienowska, Sylwia Purchla-Szepiła, Izabella Kopeć, Katarzyna Guz

Transfusion (2022), Volume 62, Issue 4. <https://doi.org/10.1111/trf.16829>

### **Effects of Different pH Control Strategies on Microalgae Cultivation and Nutrient Removal from Anaerobic Digestion Effluent**

Hyeonjung Yu, Jaai Kim, Chaeyoung Rhee, Juhee Shin, Seung Gu Shin, Changsoo Lee

Microorganisms (2022), 10(2), 357. <https://doi.org/10.3390/microorganisms10020357>

### **A digital PCR-based protocol to detect and quantify RNA editing events at hotspots**

Sunwoo Oh, Rémi Buisson

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### **Coupling Lipid Labeling and Click Chemistry Enables Isolation of Extracellular Vesicles for Noninvasive Detection of Oncogenic Gene Alterations**

Na Sun, Benjamin V. Tran, Zishan Peng, Jing Wang, Ceng Zhang, Peng Yang, Tiffany X. Zhang, Josephine Widjaja, Ryan Y. Zhang, Wenxi Xia, Alexandra Keir, Jia-Wei She, Hsiao-hua Yu, Jing-Jong Shyue, Hongguang Zhu, Vatche G. Agopian, Renjun Pei, James S. Tomlinson, Jeffrey A. Toretzky, Steven J. Jonas, Noah Federman, Shaohua Lu, Hsian-Rong Tseng, Yazhen Zhu

Advanced Science (2022), Volume 9, Issue 14 2105853. <https://doi.org/10.1002/adv.202105853>

### **Digital PCR Applications in the SARS-CoV-2/COVID-19 Era: a Roadmap for Future Outbreaks**

Raphael Nyaruaba, Caroline Mwaliko, David Dobnik, Pavel Neužil, Patrick Amoth, Matilu Mwau, Junping Yu, Hang Yang, Hongping Wei

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**Current commercial dPCR platforms: technology and market review**

Li Ling Tan, Nitin Loganathan, Sushama Agarwalla, Chun Yang, Weiyong Yuan, Jasmine Zeng, Ruige Wu, Wei Wang, Suhanya Duraiswamy

Crit Rev Biotechnol (2022), 15. <https://doi.org/10.1080/07388551.2022.2037503>

**Optimization and Application of a Multiplex Digital PCR Assay for the Detection of SARS-CoV-2 Variants of Concern in Belgian Influent Wastewater**

Tim Boogaerts, Siel Van den Bogaert, Laura A. E. Van Poelvoorde, Diala El Masri, Naomi De Roeck, Nancy H. C. Roosens, Marie Lesenfans, Lies Lahousse, Koenraad Van Hoorde, Alexander L. N. van Nuijs, Peter Delputte

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