

## RECENT PUBLICATIONS (Prof. Mauro Dacasto, *full papers*, years 2020-2024)

H. OCAGLI, C. LANERA, M. FRANZOI, C. MONACHESI, R. ZGHEIB, S. BELLUCO, **M. DACASTO**, D. GREGORI, I. BALDI (2024):

Unveiling insights from the Joint FAO/WHO Expert Committee on food additives (JEFCA) portal. *Scientific Data*, **11**, 1443.

Category and quartile (ISI Web of Science™, Journal Citation Reports®): Multidisciplinary Sciences, Q1

Impact Factor: 6.900

MONTANUCCI L., GUIDOLIN E., LOPPARELLI R.M., MUCIGNAT G., PAULETTO M., GIANTIN M., **DACASTO M.** (2024):

Mutational landscape of KIT proto-oncogene coding sequence in 62 canine cutaneous and subcutaneous mast cell tumors.

*Veterinary Sciences*, **11**, 593.

Category and quartile (ISI Web of Science™, Journal Citation Reports®): Veterinary Sciences, Q1

Impact Factor: 2.30

L. MONTANUCCI, S. IORI, M. LAHTELA-KAKKONEN, M. PAULETTO, M. GIANTIN, **M. DACASTO** (2024):

Impact of missense mutations on AFB1 metabolism in bovine cytochrome P4503A isoforms: a computational mutagenesis and molecular docking analysis.

*International Journal of Molecular Sciences*, **25**, 12529.

Category and quartile (ISI Web of Science™, Journal Citation Reports®): 4.90

Impact Factor: Biochemistry and Molecular Biology, Q1

S. IORI, M. LAHTELA-KAKKONEN, C. D'ONOFRIO, F. MAIETTI, G. MUCIGNAT, A. BARDHI, A. BARBAROSSA, A. ZAGHINI, M. PAULETTO, **M. DACASTO**, M. GIANTIN (2024):

New insights into aflatoxin B1 mechanistic toxicology in cattle liver: an integrated approach using molecular docking and biological evaluation in CYP1A1 and CYP3A74 knockout BFH12 cell lines.

*Archives of Toxicology*, **98**, 3097-3108.

Category and quartile (ISI Web of Science™, Journal Citation Reports®): Toxicology, Q1

Impact Factor: 6.90

G. MUCIGNAT, L. MONTANUCCI, R. ELGENDY, M. GIANTIN, P. LAGANGA, M. PAULETTO, F. MUTINELLI, M. VASCELLARI, V.F. LEONE, **M. DACASTO**, A. GRANATO (2024):

Whole-transcriptomic analysis of canine oral melanoma: a chance to disclose radiotherapy effect and outcome associated gene signature.

*Genes*, **15**, 1065.

Category and quartile (ISI Web of Science™, Journal Citation Reports®): Genetics & Heredity, Q2

Impact Factor: 2.80

PIETROPOLI E. BARDHI A., SIMONATO V., ZANELLA M., IORI S., BARBAROSSA A., GIANTIN M., **DACASTO M.**, DE LIGUORO M., PAULETTO M. (2024):

Comparative toxicity assessment of alternative versus legacy PFAS: Implications for two primary trophic levels in freshwater ecosystems.

*Journal of Hazardous Materials*, **477**, 135269.

Category and quartile (ISI Web of Science™, Journal Citation Reports®): Environmental Sciences

Impact Factor: 11.30

C. GASPARINI, S. IORI, E. PIETROPOLI, M. BONATO, M. GIANTIN, A. BARBAROSSA, A. BARDHI, A. PILASTRO, **M. DACASTO**, M. PAULETTO (2024):

Sub-acute exposure of male guppies (*Poecilia reticulata*) to environmentally relevant concentrations of PFOA and GenX induces significant changes in the testis transcriptome and reproductive traits.

*Environment International*, **187**, 108703.

Category and quartile (ISI Web of Science™, Journal Citation Reports®): Environmental Sciences, Q1

Impact Factor: 9.70

S. IORI, C. D'ONOFRIO, N. LAHAM-KARAM, I. MUSHIMIYIMANA, L. LUCATELLO, L. MONTANUCCI, R.M. LOPPARELLI, F. BONSEMBIANTE, F. CAPOLONGO, M. PAULETTO, **M. DACASTO**, M. GIANTIN (2024):

Generation and characterization of cytochrome P450 3A74 CRISPR/Cas9 knockout bovine foetal hepatocyte cell line (BFH12).

*Biochemical Pharmacology*, **224**, 116231.

Category and quartile (ISI Web of Science™, Journal Citation Reports®): Pharmacology & Pharmacy, Q1

Impact Factor: 5.60

S. IORI, C. D'ONOFRIO, N. LAHAM-KARAM, I. MUSHIMIYIMANA, L. LUCATELLO, R.M. LOPPARELLI, M.E. GELAIN, F. CAPOLONGO, M. PAULETTO, **M. DACASTO**, M. GIANTIN (2024):

Establishment and characterization of cytochrome P450 1A1 CRISPR/Cas9 knockout bovine foetal hepatocyte cell line (BFH12).

*Cell Biology and Toxicology*, **40**, 18.

Category and quartile (ISI Web of Science™, Journal Citation Reports®): Toxicology, Q1

Impact Factor: 5.90

G. ZARDINONI, S. DEB, S. RAVI, L. G., P. FUMELLI, A. TONDELLO, **M. DACASTO**, A. SQUARTINI, C. SPANU, A. TROCINO, P. STEVANATO (2024):

Difference in composition and functional analysis of bacterial communities between *Mytilus galloprovincialis* gills and surrounding water in a brackish inshore bay, analyzed by 16S rDNA multi-amplicon sequencing.

*Annals of Microbiology*, **74**, 3.

Category and quartile (ISI Web of Science™, Journal Citation Reports®): Biotechnology & Applied Microbiology, Q2

Impact Factor: 3.40

M. PAULETTO, M. GIANTIN, R. TOLOSI, I. BASSAN, A. BARDHI, A. BARBAROSSA, L. MONTANUCCI, A. ZAGHINI, **M. DACASTO** (2023):

Discovering the protective effects of quercetin on aflatoxin B1-induced toxicity in bovine foetal hepatocyte-derived cells (BFH12).

*Toxins*, **15**, 555.

Category and quartile (ISI Web of Science™, Journal Citation Reports®): Toxicology, Q1 Impact Factor: 3.900

E. PIETROPOLI, M. PAULETTO, R. TOLOSI, S. IORI, R.M. LOPPARELLI, L. MONTANUCCI, M. GIANTIN, **M. DACASTO**, M. DE LIGUORO (2023):

An *in vivo* whole-transcriptomic approach to assess developmental and reproductive impairments caused by flumequine in *Daphnia magna*. 4

*International Journal of Molecular Sciences*, **24**, 9396.

Category and quartile (ISI Web of Science™, Journal Citation Reports®): Biochemistry & Molecular Biology, Q1

Impact Factor: 4.900

MARCONATO L., STEFANELLO D., SOLARI BASANO F., FARONI E., **DACASTO M.**, GIANTIN M., BETTINI G., ARESU L., BONFANTI U., BERTAZZOLO W., ANNONI M., LECCHI C., SABATTINI S. (2023):

Subcutaneous mast cell tumors: a prospective multi-institutional clinico-pathologic and prognostic study on 43 dogs.

*Veterinary Record*, **193**, e2991.

Category and quartile (ISI Web of Science™, Journal Citation Reports®): Veterinary Sciences, Q2  
Impact Factor: 1.800

A. PASCUAL, M. PAULETTO, A. TROCINO, M. BIROLO, **M. DACASTO**, M. GIANTIN, F. BORDIGNON, C. BALLARIN, M. BORTOLETTI, G. PILLAN, G. XICCATO G: (2022):  
Effect of the dietary supplementation with extracts of chestnut and grape pomace on performance and jejunum response in female and male broiler chickens at different ages. *Journal of Animal Science and Biotechnology*, **13**, 102.  
Category and quartile: Agriculture, Dairy & Animal Science, Q1  
Impact Factor: 7.000

S. IORI, M. PAULETTO, I. BASSAN, F. BONSEMBIANTE, M.E. GELAIN, A. BARDHI, A. BARBAROSSA, A. ZAGHINI, **M. DACASTO**, M. GIANTIN (2022):  
Deepening the whole transcriptomics of bovine liver cells exposed to AFB1: a spotlight on Toll-Like Receptor 2. *Toxins*, **14**, 504.  
Category and quartile: Toxicology, Q1  
Impact Factor: 4.500

G. MUCIGNAT, I. BASSAN, M. GIANTIN, M. PAULETTO, A. BARDHI, S. IORI, R.M. LOPPARELLI, A. BARBAROSSA, A. ZAGHINI, E. NOVELLI, **M. DACASTO** (2022):  
Does bentonite cause cytotoxic and whole-transcriptomic adverse effects in enterocytes when used to reduce aflatoxin B1 exposure? *Toxins*, **14**, 435.  
Category and quartile: Toxicology, Q1  
Impact Factor: 4.500

ZORZAN E., ELGENDY R., GUERRA G., DA ROS S., GELAIN M.E., BONSEMBIANTE F., GARAFFO G., VITALE N., PIVA R., MARCONATO L., ARESU L., **DACASTO M.**, GIANTIN M. (2022):  
Hypermethylation-mediated silencing of CIDEA, MAL and PCDH17 tumour suppressor genes in canine DLBCL: from multi-omics analyses to mechanistic studies. *International Journal of Molecular Sciences*, **23**, 4021.  
Category and quartile: Biochemistry & Molecular Biology, Q1  
Impact Factor: 5.600

CANTIELLO M., CARLETTI M., GIANTIN M., GARDINI G., CAPOLONGO F., CASCIO P., PAULETTO M., GIROLAMI F., **DACASTO M.**, NEBBIA C. (2022):  
Induction by phenobarbital of phase I and II xenobiotic-metabolizing enzymes in bovine liver: an overall catalytic and immunochemical characterization. *International Journal of Molecular Sciences*, **23**, 3564.  
Category and quartile: Biochemistry & Molecular Biology, Q1.  
Impact Factor: 5.600.

WILLMANN M., YUZBASIYAN-GURKAN V., MARCONATO L., **DACASTO M.**, HADZIJUSUFOVIC E., HERMINE O., SADOVNIK I., GAMPERL S., SCHNEEWEISS-GLEIXNER M., GLEIXNER K.V., BÖHM T., PETER B., EISENWORT G., MORIGGL R., LI Z., JAWHAR M., SOTLAR K., JENSEN-JAROLIM E., SEXL V., HORNY H-P., GALLI S.J., AROCK M., VAIL D.M., KIUPEL M., VALENT P. (2021):  
Proposed diagnostic criteria and classification of canine mast cell neoplasms: a consensus proposal. *Frontiers in Veterinary Science*, **2**, 755258.  
Category and quartile: Veterinary Sciences, Q1  
Impact Factor: 3.471

PAULETTO M., GIANTIN M., TOLOSI R., BASSAN I., BARBAROSSA A., ZAGHINI A., **DACASTO M.** (2021):  
Discovering the protective effects of resveratrol on aflatoxin B1-induced toxicity: a whole transcriptomic study in a bovine hepatocyte cell line.

*Antioxidants*, **10**, 1225.

Category and quartile: Biochemistry and Molecular Biology, Q1.

Impact Factor: 7.675

E. BUGLIONE, D. SALERNO, C.A. MARRANO, V. CASSINA, G. VESCO, L. NARDO, **M. DACASTO**, R. RIGO, C. SISSI, F. MANTEGAZZA (2021):

Nanomechanics of G-quadruplexes within the promoter of the *KIT* oncogene.

*Nucleic Acid Research*, **49**, 4564-4573.

Category and quartile: Biochemistry and Molecular Biology, Q1

Impact Factor: 19.160

DA ROS S., NICOLETTO G., RIGO R., CESCHI S., ZORZAN E., **M. DACASTO**, GIANTIN M., SISSI C. (2021):

G-quadruplex modulation of SP1 functional binding sites at the *KIT* proximal promoter. *International Journal of Molecular Sciences*, **22**, 329.

Category and quartile: Biochemistry and Molecular Biology, Q1

Impact Factor: 6.208

M. PAULETTO, M. GIANTIN, R. TOLOSI, I. BASSAN, A. BARBAROSSA, A. ZAGHINI, **M. DACASTO** (2020):

Curcumin mitigates AFB1-induced hepatic toxicity by triggering cattle antioxidant and anti-inflammatory pathways: a whole transcriptomic in vitro study.

*Antioxidants*, **9**, 1059.

Category and quartile (ISI Web of Science™, Journal Citation Reports®): Chemistry, Medicinal, Q1

Impact Factor: 6.312

G. POZZA, A. PINTO, S. CROVATO, G. MASCARELLO, L. BANO, **M. DACASTO**, A. BATTISTI, B. BARTOLI, L. RAVAROTTO, S. MARANGON (2020):

Antimicrobial use and antimicrobial resistance: standpoint and prescribing behaviour of Italian cattle and pig veterinarians

*Italian Journal of Animal Science*, **19**, 905-916.

Category and quartile (ISI Web of Science™, Journal Citation Reports®): Agricultural, Dairy & Animal Science, Q1

Impact Factor: 2.217

KUHNERT L., GIANTIN M., **M. DACASTO**, HALWACHS S., HONSCHA W. (2020):

AhR-activating pesticides increase the bovine ABCG2 efflux activity in MDCKII-bABCG2 cells.

*PLoS One*, **15**, e0237163.

Category and quartile (ISI Web of Science™, Journal Citation Reports®): Multidisciplinary Sciences, Q1

IF: 3.240

PAULETTO M., TOLOSI R., GIANTIN M., GUERRA, G., BARBAROSSA A., ZAGHINI A., **M. DACASTO** (2020):

Insights into aflatoxin B1 toxicity in cattle: an in vitro whole-transcriptomic approach. *Toxins*, **12**, 429.

Category and quartile (ISI Web of Science™, Journal Citation Reports®): Toxicology, Q1

IF: 4.546

A. PASCUAL, M. PAULETTO, M. GIANTIN, G. RADAELLI, C. BALLARIN, M. BIROLO, C. ZOMEÑO, **M. DACASTO**, M. BORTOLETTI, M. VASCELLARI, G. XICCATO AND A. TROCINO (2020):

Effect of dietary supplementation with yeast cell wall extracts on performance and gut response in broiler chickens.

*Journal of Animal Science and Biotechnology*, **11**, 40.

Category and quartile (ISI Web of Science™, Journal Citation Reports®): Agriculture, Dairy & Animal Science, Q1

IF: 5.032

PAULETTO M., ELGENDY R., IANNI A., MARONE E., GIANTIN M., GROTTA L., RAMAZZOTTI S., BENNATO F., **DACASTO M.**, MARTINO G. (2020):

Nutrigenomic effects of long-term grape pomace supplementation in dairy cows.

*Animals*, **10**, E714.

Category and quartile (ISI Web of Science™, Journal Citation Reports®): Veterinary Sciences, Q1  
IF: 2.752

IANNACCONI M., ELGENDY R., IANNI A., MARTINO C., PALAZZO F., GIANTIN M., GROTTA L., **DACASTO M.**, MARTINO G. (2020):

Whole-transcriptome profiling of sheep fed with a high iodine-supplemented diet.

*Animal*, **14**, 745-752.

Category and quartile (ISI Web of Science™, Journal Citation Reports®): Veterinary Sciences, Q1  
IF: 3.240