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### Websites & social links

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[ResearcherID: K-7424-2013](#)

[ResearcherID: F-6320-2015](#)

[Scopus Author ID: 36094098300](#)

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Published name

**Gustavo D. A. Gastal**

Name

Also known as

**INDICE**  
Gustavo Desire Antunes Gastal

**ASUS KNOWLEDG**  
Gastal, G.D.A., Gastal, G.D., Gustavo D A  
Gastal



## Biography

DVM Federal University of Pelotas (UFPEL), RS-Brazil, 2010; Masters in Vet Sci UFPEL, RS-Brazil, 2012; Ph.D. in Agricultural Sciences, Southern Illinois University, Illinois, USA; Post-Doc Artificial Insemination and Embryo Transfer, Vetmeduni Vienna, Austria, 2017; Senior researcher in Animal Reproduction, Instituto Nacional de Investigación Agropecuaria, Uruguay, 2018. Current research is focused on ovarian folliculogenesis, reproductive endocrinology and physiology, assisted reproductive biotechnologies, and reproductive ultrasonography with the primary focus on fertility preservation and translational studies with sheep, cattle, and horses.

## Activities

[Collapse all](#)

### ∨ Employment (1)

Sort

#### **National Institute of Agricultural Research of Uruguay : Colonia del Sacramento, Colonia, UY**

2018-03-12 to present | Researcher (La Estanzuela experimental station)  
Employment

[Show more detail](#)

**Source:** Gustavo D. A. Gastal

### ∨ Invited positions and distinctions (1)

Sort

#### **Southern Illinois University Carbondale: Carbondale, IL, US**

2021-09-01 to present | Adjunct Graduate Faculty (Animal Science Program)  
Invited position

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**Source:** Gustavo D. A. Gastal

### ∨ Membership and service (2)

Sort

#### **Endocrine Society: Washington D.C., District of Columbia, US**

Membership

[Show more detail](#)

**Source:** Gustavo D. A. Gastal

## International Embryo Technology Society: Champaign , Illinois, US

2014-01-01 to present | Professional Member  
Membership

[Show more detail](#)

**Source:** Gustavo D. A. Gastal

∨ Works (27)

≡ Sort

### Equine chorionic gonadotropin administered on day 5 of a 7-days fixed-time artificial insemination program improves ovulation synchrony and corpus luteum function in anestrous beef cows

Theriogenology

2023-01 | Journal article

DOI: [10.1016/j.theriogenology.2022.10.016](https://doi.org/10.1016/j.theriogenology.2022.10.016)

CONTRIBUTORS: Rafael Aragunde Vieytes; Carolina Viñoles Gil; Gustavo D.A. Gastal; Daniel Cavestany

[Show more detail](#)

**Source:** Crossref

### Ovarian and Uterine Dynamics During the Estrous Cycle in Criollo Breed Mares

Journal of Equine Veterinary Science

2022-11 | Journal article

DOI: [10.1016/j.jjevs.2022.104131](https://doi.org/10.1016/j.jjevs.2022.104131)

CONTRIBUTORS: Luzia H. Duval; Sandra M. Fiala Rechsteiner; Gustavo D.A. Gastal; Melba O. Gastal; Rodrigo C. Mattos; Eduardo L. Gastal

[Show more detail](#)

**Source:** Crossref

### Supervivencia de la gestación en vacas Holstein asociada a la paridad y biotipo en Uruguay

Archivos Latinoamericanos de Producción Animal

2022-10-25 | Journal article | *Author*

DOI: [10.53588/alpa.300614](https://doi.org/10.53588/alpa.300614)

Part of ISSN: [2075-8359](https://doi.org/10.53588/alpa.300614)

[Show more detail](#)

Part of ISSN: [1022-1301](#)

CONTRIBUTORS: Juan Pablo Garzón Prado; Waldemir Neto; Victoria Urioste; Marcelo Pla; Eduardo Vidal; Santiago Fariña; Gustavo D. A. Gastal

**Source:** Gustavo D. A. Gastal ★ Preferred source (of 2)

### Characterization of preantral follicle clustering and neighborhood patterns in the equine ovary

PLOS ONE

[Show more detail](#)

2022-10-04 | Journal article

DOI: [10.1371/journal.pone.0275396](#)

CONTRIBUTORS: Kendall A. Hyde; Meijia Zhang; Francisco L. N. Aguiar; Paula B. Alvarenga; Amanda L. Rezende; Benner G. Alves; Kele A. Alves; Gustavo D. A. Gastal; Melba O. Gastal; Eduardo L. Gastal

**Source:** Crossref

### Preantral follicle population and distribution in the horse ovary

Reproduction and Fertility

[Show more detail](#)

2022-05-01 | Journal article

DOI: [10.1530/RAF-21-0100](#)

CONTRIBUTORS: Kendall A Hyde; Francisco L N Aguiar; Benner G Alves; Kele A Alves; Gustavo D A Gastal; Melba O Gastal; Eduardo L Gastal

**Source:** Crossref

### Epigenetic Changes in Equine Embryos after Short-Term Storage at Different Temperatures

Animals

[Show more detail](#)

2021-05-06 | Journal article

DOI: [10.3390/ani11051325](#)

CONTRIBUTORS: Gustavo D. A. Gastal; Dragos Scarlet; Maria Melchert; Reinhard Ertl; Christine Aurich

**Source:** Crossref ★ Preferred source (of 2)

### Epigenetic Changes in Equine Embryos After Short-term Storage at Different Temperatures

2021-01-07 | Other

[Show more detail](#)

DOI: [10.21203/rs.3.rs-139650/v1](#)

CONTRIBUTORS: Gustavo Desire Antunes Gastal; Dragos Scarlet; Maria Melchert; Reinhard Ertl; Christine Aurich

**Source:** Crossref

### **Cover Image, Volume 86, Issue 12, December 2019**

Molecular Reproduction and Development

[Show more detail](#)

2019-12 | Journal article

DOI: [10.1002/mrd.23035](https://doi.org/10.1002/mrd.23035)

CONTRIBUTORS: Ghassan M. A. Ishak; Gabriel A. Dutra; Gustavo D. A. Gastal; Melba O. Gastal; Jean M. Feugang; Eduardo L. Gastal

**Source:** Crossref

### **Transition to the ovulatory season in mares: An investigation of antral follicle receptor gene expression in vivo**

Molecular Reproduction and Development

[Show more detail](#)

2019-12-30 | Journal article

DOI: [10.1002/mrd.23277](https://doi.org/10.1002/mrd.23277)

CONTRIBUTORS: Ghassan M. A. Ishak; Gabriel A. Dutra; Gustavo D. A. Gastal; Melba O. Gastal; Jean M. Feugang; Eduardo L. Gastal

**Source:** Crossref

### **Ultrastructural Imaging Analysis of the Zona Pellucida Surface in Bovine Oocytes**

Microscopy and Microanalysis

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2019-08-28 | Journal article

DOI: [10.1017/S1431927619000692](https://doi.org/10.1017/S1431927619000692)

CONTRIBUTORS: Francisco Báez; Álvaro A. Camargo; Gustavo D.A. Gastal

**Source:** Crossref

### **Spatial distribution of preantral follicles in the equine ovary**

PLOS ONE

[Show more detail](#)

2018-06-13 | Journal article

DOI: [10.1371/journal.pone.0198108](https://doi.org/10.1371/journal.pone.0198108)

CONTRIBUTORS: Benner G. Alves; Peter J. Hansen; Kele A. Alves; Gustavo D. A. Gastal; Melba O. Gastal; José R. Figueiredo; Eduardo L. Gastal

**Source:** Crossref

### Effects of Cryoprotectant Agents on Equine Ovarian Biopsy Fragments in Preparation for Cryopreservation

Journal of Equine Veterinary Science

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2017 | Journal article

DOI: [10.1016/j.jevs.2016.03.014](https://doi.org/10.1016/j.jevs.2016.03.014)

EID: 2-s2.0-85014046909

CONTRIBUTORS: Gastal, G.D.A.; Alves, B.G.; Alves, K.A.; Paiva, S.O.; de Tarso, S.G.S.; Ishak, G.M.; Bashir, S.T.; Gastal, E.L.

**Source:** Gustavo D. A. Gastal *via* Scopus - Elsevier ★ Preferred source (of 2)

### Effects of FSH addition to an enriched medium containing insulin and EGF after long-term culture on functionality of equine ovarian biopsy tissue

Theriogenology

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2017 | Journal article

DOI: [10.1016/j.theriogenology.2017.04.045](https://doi.org/10.1016/j.theriogenology.2017.04.045)

EID: 2-s2.0-85020249780

CONTRIBUTORS: Aguiar, F.L.N.; Gastal, G.D.A.; Ishak, G.M.; Gastal, M.O.; Teixeira, D.I.A.; Feugang, J.M.; Figueiredo, J.R.; Gastal, E.L.

**Source:** Gustavo D. A. Gastal *via* Scopus - Elsevier ★ Preferred source (of 2)

### Equine ovarian tissue viability after cryopreservation and in vitro culture

Theriogenology

[Show more detail](#)

2017 | Journal article

DOI: [10.1016/j.theriogenology.2017.04.029](https://doi.org/10.1016/j.theriogenology.2017.04.029)

EID: 2-s2.0-85018378611

CONTRIBUTORS: Gastal, G.D.A.; Aguiar, F.L.N.; Alves, B.G.; Alves, K.A.; de Tarso, S.G.S.; Ishak, G.M.; Cavinder, C.A.; Feugang, J.M.; Gastal, E.L.

**Source:** Gustavo D. A. Gastal *via* Scopus - Elsevier ★ Preferred source (of 2)

## Follicle vascularity coordinates corpus luteum blood flow and progesterone production

Reproduction, Fertility and Development

2017 | Journal article

DOI: [10.1071/RD15223](https://doi.org/10.1071/RD15223)

EID: 2-s2.0-85013436274

CONTRIBUTORS: De Tarso, S.G.S.; Gastal, G.D.A.; Bashir, S.T.; Gastal, M.O.; Apgar, G.A.; Gastal, E.L.

[Show more detail](#)

**Source:** Gustavo D. A. Gastal *via* Scopus - Elsevier ★ Preferred source (of 2)

## Ovarian features in white-tailed deer (*Odocoileus virginianus*) fawns and does

PLoS ONE

2017 | Journal article

DOI: [10.1371/journal.pone.0177357](https://doi.org/10.1371/journal.pone.0177357)

EID: 2-s2.0-85019918903

CONTRIBUTORS: Gastal, G.D.A.; Hamilton, A.; Alves, B.G.; De Tarso, S.G.S.; Feugang, J.M.; Banz, W.J.; Apgar, G.A.; Nielsen, C.K.; Gastal, E.L.

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**Source:** Gustavo D. A. Gastal *via* Scopus - Elsevier ★ Preferred source (of 2)

## Ovarian fragment sizes affect viability and morphology of preantral follicles during storage at 4°C

Reproduction

2017 | Journal article

DOI: [10.1530/REP-16-0621](https://doi.org/10.1530/REP-16-0621)

EID: 2-s2.0-85019110171

CONTRIBUTORS: Gastal, G.D.A.; Alves, B.G.; Alves, K.A.; Souza, M.E.M.; Vieira, A.D.; Varela, A.S.; Figueiredo, J.R.; Feugang, J.M.; Lucia, T.; Gastal, E.L.

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**Source:** Gustavo D. A. Gastal *via* Scopus - Elsevier ★ Preferred source (of 2)

## Preantral follicle density in ovarian biopsy fragments and effects of mare age

Reproduction, Fertility and Development

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2017 | Journal article

DOI: [10.1071/RD15402](https://doi.org/10.1071/RD15402)

EID: 2-s2.0-85017540683

CONTRIBUTORS: Alves, K.A.; Alves, B.G.; Gastal, G.D.A.; Haag, K.T.; Gastal, M.O.; Figueiredo, J.R.; Gambarini, M.L.; Gastal, E.L.

**Source:** Gustavo D. A. Gastal *via* Scopus - Elsevier ★ Preferred source (of 2)

## Glucocorticoid metabolism in equine follicles and oocytes

Domestic Animal Endocrinology

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2017-04 | Journal article

DOI: [10.1016/j.domaniend.2016.10.004](https://doi.org/10.1016/j.domaniend.2016.10.004)

CONTRIBUTORS: D. Scarlet; N. Ille; R. Ertl; B.G. Alves; G.D.A. Gastal; S.O. Paiva; M.O. Gastal; E.L. Gastal; C. Aurich

**Source:** Crossref ★ Preferred source (of 3)

## Effect of $\beta$ -mercaptoetanol and cysteine on post-thawing quality and oxidative activity of ram sperm and on the viability of vitrified sheep embryos

Arquivo Brasileiro de Medicina Veterinaria e Zootecnia

[Show more detail](#)

2016 | Journal article

DOI: [10.1590/1678-4162-8479](https://doi.org/10.1590/1678-4162-8479)

EID: 2-s2.0-84999024995

CONTRIBUTORS: Pradieé, J.; Cardoso, T.F.; Silva, E.F.; Gonçalves, A.O.; Gastal, G.D.A.; Rosa, C.E.; Mondadori, R.G.; Pegoraro, L.M.C.; Vieira, A.D.; Lucia, T.

**Source:** Gustavo D. A. Gastal *via* Scopus - Elsevier ★ Preferred source (of 2)

## Novel prospects for evaluation of follicle wall blood flow using color-Doppler ultrasonography

Animal Reproduction

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2016 | Journal article

DOI: [10.21451/1984-3143-AR806](https://doi.org/10.21451/1984-3143-AR806)

EID: 2-s2.0-84992746976

CONTRIBUTORS: De Tarso, S.G.S.; Ishak, G.M.; Gastal, G.D.A.; Bashir, S.T.; Gastal, M.O.; Gastal, E.L.

**Source:** Gustavo D. A. Gastal *via* Scopus - Elsevier ★ Preferred source (of 2)



## The mare model to study the effects of ovarian dynamics on preantral follicle features

PLoS ONE

2016 | Journal article

DOI: [10.1371/journal.pone.0149693](https://doi.org/10.1371/journal.pone.0149693)

EID: 2-s2.0-84960539069

CONTRIBUTORS: Alves, K.A.; Alves, B.G.; Gastal, G.D.A.; De Tarso, S.G.S.; Gastal, M.O.; Figueiredo, J.R.; Gambarini, M.L.; Gastal, E.L.

[Show more detail](#)

**Source:** Gustavo D. A. Gastal *via* Scopus - Elsevier ★ Preferred source (of 2)

## Contribution of boars to reproductive performance and paternity after homospermic and heterospermic artificial insemination

Reproduction, Fertility and Development

2015 | Journal article

DOI: [10.1071/RD13418](https://doi.org/10.1071/RD13418)

EID: 2-s2.0-84940031481

CONTRIBUTORS: Ferreira, C.E.R.; Sávio, D.B.; Guarise, A.C.; Flach, M.J.; Gastal, G.D.A.; Gonçalves, A.O.; Dellagostin, O.A.; Alonso, R.V.; Bianchi, I.; Corcini, C.D. et al.

[Show more detail](#)

**Source:** Gustavo D. A. Gastal *via* Scopus - Elsevier ★ Preferred source (of 2)

## Association between the presence of protein bands in ram seminal plasma and sperm tolerance to freezing

Animal Reproduction Science

2014 | Journal article

DOI: [10.1016/j.anireprosci.2014.03.009](https://doi.org/10.1016/j.anireprosci.2014.03.009)

EID: 2-s2.0-84899479702

CONTRIBUTORS: Goularte, K.L.; Gastal, G.D.A.; Schiavon, R.S.; Gonçalves, A.O.; Schneider, J.R.; Corcini, C.D.; Lucia, T.

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**Source:** Gustavo D. A. Gastal *via* Scopus - Elsevier ★ Preferred source (of 2)

## Association of the occurrence of some diseases with reproductive performance and milk production of dairy herds in southern Brazil

Revista Brasileira de Zootecnia

2012 | Journal article

DOI: [10.1590/S1516-35982012000200032](https://doi.org/10.1590/S1516-35982012000200032)

EID: 2-s2.0-84864621435

CONTRIBUTORS: Filho, V.B.S.; Schiavon, R.S.; Gastal, G.D.A.; Timm, C.D.; Lucia, T.

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**Source:** Gustavo D. A. Gastal *via* Scopus - Elsevier

## Association of the occurrence of some diseases with reproductive performance and milk production of dairy herds in southern Brazil

Revista Brasileira de Zootecnia

2012 | Journal article

DOI: [10.1590/S1516-35982012000200033](https://doi.org/10.1590/S1516-35982012000200033)

WOSUID: WOS:000302012700033

CONTRIBUTORS: Filho, V.B.S.; Schiavon, R.S; Gastal, G.D.A.; Timm, C.D.; Lucia, T.

[Show more detail](#)

**Source:** Gustavo D. A. Gastal *via* ResearcherID

## Cryoprotectant effect of trehalose and low-density lipoprotein in extenders for frozen ram semen

Small Ruminant Research

2010 | Journal article

DOI: [10.1016/j.smallrumres.2010.05.003](https://doi.org/10.1016/j.smallrumres.2010.05.003)

EID: 2-s2.0-77956270825

CONTRIBUTORS: Tonieto, R.A.; Goularte, K.L.; Gastal, G.D.A.; Schiavon, R.S.; Deschamps, J.C.; Lucia, T.

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**Source:** Gustavo D. A. Gastal *via* Scopus - Elsevier ★ Preferred source (of 2)

▼ Peer review (33)

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➤ Review activity for **Acta histochemica (Print)** (2)

➤ Review activity for **Agriculture.** (1)

➤ Review activity for **Anais da Academia Brasileira de Ciências.** (2)

➤ Review activity for **Andrologia.** (28)

➤ Review activity for **Animal production science.** (1)

➤ Review activity for **Animal reproduction science.** (5)

➤ Review activity for **Animal Reproduction.** (2)

➤ Review activity for **Animals.** (4)

➤ Review activity for **Annals of the New York Academy of Sciences.** (1)

➤ Review activity for **Aquaculture.** (4)

➤ Review activity for **Arquivo brasileiro de medicina veterinária e zootecnia.** (3)

➤ Review activity for **Biology of reproduction.** (13)

➤ Review activity for **Biology.** (1)

➤ Review activity for **Biopreservation and biobanking.** (6)

➤ Review activity for **Cell transplantation.** (2)

➤ Review activity for **Ciência rural.** (5)

➤ Review activity for **Cryobiology** (3)

➤ Review activity for **Endocrinology** (17)

➤ Review activity for **Endocrinology.** (10)

➤ Review activity for **Gynecology and obstetrics clinical medicine.** (1)

➤ Review activity for **Journal of dairy, veterinary & animal research.** (1)

➤ Review activity for **Journal of equine veterinary science.** (2)

➤ Review activity for **Medicina.** (3)

➤ Review activity for **Microscopy and microanalysis.** (3)

➤ Review activity for **Molecules.** (1)

➤ Review activity for **Pesquisa Veterinária Brasileira** (1)

➤ Review activity for **Reproduction and fertility.** (1)

➤ Review activity for **Reproduction in domestic animals.** (16)

➤ Review activity for **Reproduction, fertility, and development.** (3)

➤ Review activity for **Reproductive Biology.** (2)

➤ Review activity for **Sustainability.** (2)

➤ Review activity for **Theriogenology.** (32)

➤ Review activity for **Tropical Animal Health and Production** (3)



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