

1) Family number: 30258055 (US2002137685A)

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Title: ANTIMICROBIAL AMINO ACID SEQUENCES DERIVED FROM ALPHA-MELANOCYTE-STIMULATING HORMONE

Abstract: The presence of the ancient anti-inflammatory peptide alpha-melanocyte stimulating hormone (alpha-MSH [1-13], SYSMEHFRWGKPV) in barrier organs such as gut and skin suggests a role in the nonspecific (innate) host defense system. alpha-MSH and other amino acid sequences derived from alpha-MSH were determined to have antimicrobial influences, including against two major and representative cutaneous and mucosal pathogens: *Staphylococcus aureus* and *Candida albicans*. alpha-MSH peptides had antimicrobial effects against *S. aureus* and significantly reversed the enhancing effect of urokinase on *S. aureus* colony formation. alpha-MSH and other amino acid sequences reduced *C. albicans* viability and germination. alpha-MSH peptides also enhanced *C. albicans* killing by human neutrophils. The antimicrobial agent is selected from the group consisting of one or more peptides including the amino acid sequence KPV, one or more peptides including the amino acid sequence MEHFRWG, or a biologically functional equivalent of any of the foregoing. The most effective of the peptides were those bearing the C-terminal amino acid sequence of alpha-MSH, i.e., alpha-MSH (1-13), (6-13), and (11-13). The alpha-MSH "core" sequence (4-10), important for melanotropic effects, was also effective but significantly less potent. Antimicrobial influences of alpha-MSH peptides could be mediated by their well-known capacity to increase cellular cAMP; this messenger was significantly augmented in peptide-treated yeast. alpha-MSH has potent anti-inflammatory effects and is expected to be useful for treatment of inflammation in human and veterinary disorders. Reduced killing of pathogens is a detrimental consequence of therapy with corticosteroids and nonsteroidal anti-inflammatory drugs during infection. Therefore, anti-inflammatory agents based on alpha-MSH peptides that do not reduce microbial killing, but rather enhance it, would be very useful. The antimicrobial effects of these alpha-MSH peptides occurred over a broad range of concentrations including the physiological (picomolar) range.

Classifications:

International (IPC 8-9): A61F13/20 A61F6/02 A61F6/06 A61K A61K38/00 A61K38/04 A61K38/05 A61K38/06 A61K38/07 A61K38/08 A61K38/16 A61K38/22 A61K38/34 A61K47/02 A61K47/04 A61K47/08 A61K47/10 A61K47/12 A61K47/14 A61K47/16 A61K47/18 A61K47/20 A61K47/24 A61K47/32 A61K47/34 A61K47/38 A61K9/00 A61K9/02 A61K9/06 A61K9/107 A61K9/12 A61K9/20 A61P A61P13/00 A61P15/00 A61P15/02 A61P15/18 A61P27/02 A61P27/04 A61P29/00 A61P31/00 A61P31/02 A61P31/04 A61P31/10 A61P31/12 A61P31/18 C07K14/575 C07K5/09 C07K5/103 C07K7/06 C07K7/08 (Advanced/Invention); A61F13/20 A61K38/00 A61K38/34 A61K9/00 A61K9/02 A61K9/06 A61K9/107 A61K9/12 A61K9/20 A61P13/00 A61P15/00 A61P29/00 C07K5/09 C07K7/06 C07K7/08 (Advanced/Non-invention); A61F13/20 A61F6/00 A61K38/00 A61K38/05 A61K38/06 A61K38/07 A61K38/08 A61K38/16 A61K38/33 A61K9/00 A61K9/02 A61K9/06 A61K9/107 A61K9/12 A61K9/20 A61P13/00 A61P15/00 A61P29/00 A61P31/00 C07K14/435 C07K5/00 C07K7/00 (Core/Invention); A61K (Subclass/Invention)

International (IPC 1-7): A01N37/18 A61F13/20 A61K38/00 A61K38/04 A61K38/05 A61K38/06 A61K38/08 A61K38/10 A61K38/34 A61K39/00 A61K39/38 A61K47/00 A61K9/00 A61K9/02 A61K9/06 A61K9/107 A61K9/12 A61K9/20 A61P13/00 A61P15/00 A61P15/18 A61P29/00 A61P31/04 A61P31/10 A61P31/12 A61P31/18 C07K C07K14/575 C07K5/00 C07K5/09 C07K5/103 C07K7/00 C07K7/06 C07K7/08

CPC: A61K9/0034 A61K38/07 A61K9/06 A61K38/06 A61K47/10 A61K47/32 A61K9/0048 A61K38/34

European: A61K38/06 A61K38/07 A61K38/34 A61K47/10 A61K47/32 A61K9/00M16 A61K9/00M8 A61K9/06 K61K9/00M16

US: 424/184.1 424/184.100P 424/278.1 424/400 424/400P 435/5 514/10.7 514/12 514/14 514/15 514/16 514/17 514/18 514/2 514/2.3 514/2.300S 514/2.4 514/2.400P 514/2.7 514/2.700S 514/20.8 514/21.7 514/3.3 514/3.4 514/3.400S 514/3.5 514/3.500S 514/3.7 514/3.700S 514/3.8 514/3.800S 514/4.2 514/9.8 514/9.800S 530/300 530/328 530/329 530/331

PatBase - US2002137685_AA

Patent Application Publication Sep. 26, 2002 Sheet 1 of 7 US 2002/0137685 A1

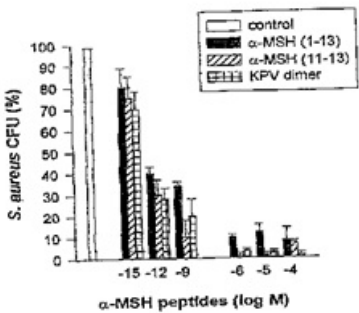


FIG. 1

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CA2368387 AA	20010924	CA20002368387	20000317
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CR8341 A	20070608	CR20060008341	20060407
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EP1191939 A1	20020403	EP20000914980	20000317
EP1191939 A4	20040324	EP20000914980	20000317
EP1191939 B1	20071017	EP20000914980	20000317
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HK1066171 A3	20050318	HK20040109157	20020318
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PT1433485 T	20100203	PT20030029246T	20000323
US2002137685 AA	20020926	US20010957765	20010921
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WO0056353 A3	20001228	WO2000US07846	20000323
WO0059527 A1	20001012	WO2000US06917	20000317
WO04046165 A2	20040603	WO2003US36184	20031114
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WO04103315 A2	20041202	WO2004US16088	20040521
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Priority:

AU19990126233P	19990324	EP20000914980	20000317	WO2000US06917	20000317
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US20030659053	20030908	WO2003US36184	20031114	WO2004US29322	20040908

Probable Assignee: MSH BIOPHARMA INC

Assignee(s): (std): CATANIA ANNA ; CATANIA ANNA P ; CATANIA ANNA PIA ; LIPTON JAMES ; LIPTON JAMES M ; ZENGEN INC ; ZENGGEN INC ; MSH PHARMA INC

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Inventor(s): (std): CATANIA ANNA P ; JAMES LIPTON ; JAMES M LIPTON ; LIPTON JAMES M ; ANNA P CATANIA ; ANNA CATANIA ; PIA CATANIA ANNA ; LIPTON JAMES ; CATANIA ANNA PIA ; CATANIA ANNA P LIPTON JAMES M ; CATANIA ANNA

Inventor(s): ANNA PIA CATANIA

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; GRIFFITH HACK; SMART AND BIGGAR; RICHES MCKENZIE AND HERBERT LLP; SAND MICHAEL LEONARD; VIVIEN CHAN AND CO; VIVIEN CHAN AND CO 15 FL ONE EXCHANGE SQUARE 8 CONNAUGHT PLACE CENTRAL; PERKINS COIE LLP; MICHAEL J; DYKEMA GOSSETT PLLC; ZINKL GREGORY M; GREGORY M

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

2) Family number: 42154254 (DE102007013107B4)

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Title: VERFAHREN ZUR BESTIMMUNG DES GESCHLECHTS VON VOGELN

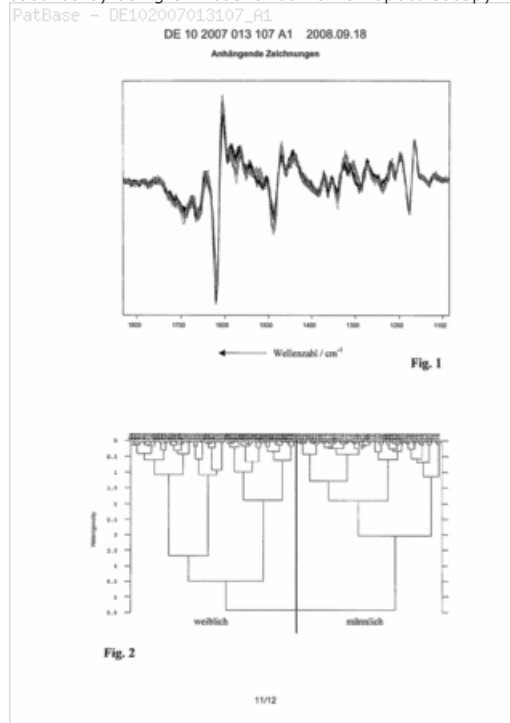
Abstract: Bird sex determination involves testing DNA relevant cell material of the bird with light, and measuring molecule oscillations. Spectrum of the molecule oscillations resulting from the light is detected, and is compared with provided and sex specific DNA structures of the reference spectrum. A sex classification of the bird, based on the spectral comparison, is crossed on the basis of DNA content of cell material. The molecule oscillations is measured by using UV resonance Raman spectroscopy.

Classifications:

International (IPC 8-9): A61B5/00 A61B6/00 C12Q1/68 G01N21/35 G01N21/64 G01N33/483 G01N33/50 (Advanced/Invention); A61B5/00 A61B6/00 C12Q1/68 G01N21/31 G01N21/64 G01N33/483 G01N33/50 (Core/Invention)

CPC: G01N21/65 C12Q1/68 G01N21/3581 G01N2201/129

European: C12Q1/68 G01N21/35F G01N21/65 S01N201/129



Family:

Publication number	Publication date	Application number	Application date
DE102007013107 A1	20080918	DE200710013107	20070315
DE102007013107 B4	20110210	DE200710013107	20070315

Priority:

DE200710013107 20070315

Probable Assignee: UNIV SCHILLER JENA

Assignee(s): (std): UNIV LEIPZIG ; UNIV SCHILLER JENA

Assignee(s): UNIVERSITAET LEIPZIG ; FRIEDRICH SCHILLER UNIV JENA ; FRIEDRICH SCHILLER UNIVERSITAET JENA ; LEIPZIG UNIV

Inventor(s): (std): BARTELS THOMAS ; HARZ MICHAELA ; KRAUSE MARIO ; POPP JUERGEN ; ROESCH PETRA

3) Family number: 8548273 (WO9523237A1)

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Title: METHODS OF DETERMINING THE GENDER OF POULTRY

Abstract: The present invention relates in general to a method of determining the gender of poultry, and more particularly ratites, via the hybridization of DNA. In the hybridization technique, the blood cells in a sample withdrawn from a bird are lysed, and the DNA from the lysed cells are affixed to a filter membrane. A labeled probe that is an oligonucleotide which hybridizes with a series of unique target gender specific oligonucleotides is then added to the filter membrane. If the female specific target oligonucleotides are present in the sample, the probe will bind to the complementary oligonucleotide sequences in the sample DNA affixed to the filter membrane. The label on the probe will then allow the filter membrane to be read. The present invention further relates to a general labeling technique using latex particles bound to a probe. This invention also relates to a method of determining the gender of poultry via the monitoring of reproductive hormone levels. This method comprises withdrawing blood from a bird, injecting the bird with an FSH composition, again withdrawing blood from the bird, and comparing the plasma concentrations of testosterone before and after the injection.

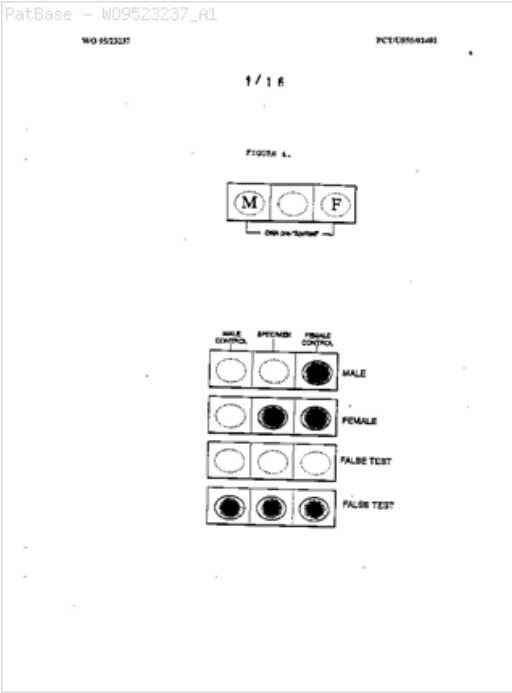
Classifications:

International (IPC 8-9): C12Q1/68 C12Q1/6879 (Advanced/Invention); C12Q1/68 (Core/Invention)

International (IPC 1-7): C07H21/02 C12Q1/68

CPC: C12Q1/6879

European: C12Q1/68M2



Family:

Publication number	Publication date	Application number	Application date
AU199519355 A1	19950911	AU19950019355	19950228
WO9523237 A1	19950831	WO1995US02481	19950228

Priority:

US19940202909 19940228 WO1995US02481 19950228

Probable Assignee: AGRITECH LAB INC

Assignee(s): (std): AGRITECH LAB INC ; UNIV LOUISIANA STATE

Assignee(s): THE BOARD OF SUPERVISORS OF LOUISIANA STATE UNIVER ; THE BOARD OF SUPERVISORS OF LOUISIANA STATE UNIV AND AGRICULTURAL AND MECHANICAL COLLEGE ; BOARD OF SUPERVISORS OF LOUISIANA STATE UNIVER ; AGRITECH LABORATORIES INC ; AGRITECH TECHNOLOGIES LTD ; BOARD OF SUPERVISORS OF LOUISIANA STATE UNIV AND AGR

Inventor(s): (std): FIORETTI WILLIAM C ; KOUSOULAS KONSTANTIN ; SATTERLEE DANIEL G

Inventor(s): WILLIAM C FIORETTI ; KONSTANTIN KOUSOULAS ; DANIEL G SATTERLEE

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TT UA UG UZ VN

4) Family number: 8745292 (US2003191297A)

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Title: AVIAN GHD GENES AND THEIR USE IN METHODS FOR SEX IDENTIFICATION IN BIRDS

Abstract: The invention provides for DNA sequences (introns and exons) encoding two genes located on the Z and W chromosomes of birds. These genes can be used to identify the sex of most birds (Class Aves). In addition, the genes control the sex of the birds, a genetic process which is initiated as an embryo. Nucleic acid fragments, proteins, polypeptides, antibodies and related products and their use in medicine and agriculture are provided. The invention may be used in sex identification or for controlling the sex of adults or the progeny of commercially important animals.

Classifications:

International (IPC 8-9): C07K14/465 C12N15/12 C12Q1/68

C12Q1/6879 (Advanced/Invention);

C12N15/12 (Advanced/Non-invention);

C07K14/435 C12N15/12 C12Q1/68 (Core/Invention)

International (IPC 1-7): A01K67/027 C07H21/04 C07K14/00 C07K14/465

C07K14/47 C07K16/00 C07K16/18 C12N15/12 C12Q1/68

CPC: C12Q1/6879 C07K14/465

European: C07K14/465 C12Q1/68M2 M07K205/00 M07K207/00

US: 530/35 530/350 530/350S 530/387.1 530/387.100S 536/23.1

536/23.100P

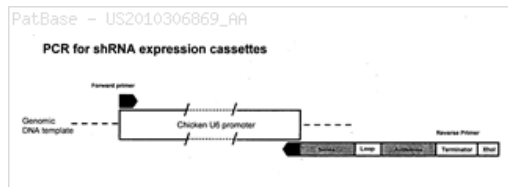
Figure 1.

[illegible]

Publication number	Publication date	Application number	Application date
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AU718349 B2	20000413	AU19960059069	19960605
EP0832218 A1	19980401	EP19960916246	19960605
GB9511439 A0	19950802	GB19950011439	19950606
NZ309122 A	20000228	NZ19960309122	19960605
US2003191297 AA	20031009	US19980973363	19980204
WO9639505 A1	19961212	WO1996GB01341	19960605

Designated states: AT AU BE CH DE DK ES FI FR GB GR IE IL IT JP LI LU MC NL NZ PT SE US

US: 435/252.3 435/254.11 435/320.1 435/320.100S 435/325 435/325S 435/419 514/44A 536/23.1 536/23.100S 536/24.5 800/19 800/19P 800/21 800/21S 800/25 800/25S 800/8

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EP2167645 A4	20120418	EP20080756916	20080612
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JP5554231 B2	20140723	JP20100511446T	20080612
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RU2518681 C2	20140610	RU20100100886	20080612
US2010306869 AA	20101202	US20080664097	20080612
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WO08151364 A1	20081218	WO2008AU00835	20080612

Priority:

US20070943708P 20070613 AU20080261604 20080612 US20080664097 20080612
WO2008AU00835 20080612 US20100664097 20100820 AU20120204092 20120704
US20120602927 20120904

Probable Assignee: AUSTRALIAN POULTRY CRC PTY LTD

Assignee(s): (std): DORAN TIMOTHY JAMES ; MOORE ROBERT JOHN ; LOWENTHAL JOHN WILLIAM ; COMMWEALTH SCIENT AND IND RES ORGANIZATION ; AUSTRALIAN POULTRY CRC PTY LTD ; COMMW SCIENT IND RES ORG ; KOMMONVELT SAJENTIFIK EHND INDASTRIAL RISERCH ORGANIZEJSHN ; OSTREHJLIAN PAULTRI SRS PTI LTD ; SINCLAIR ANDREW HENRIK ; SMITH CRAIG ALLEN

Assignee(s): COMMW SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISAT ; COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION ; MURDOCH CHILDRENS RESEARCH INST ; OF MELBOURNE UNIV ; COMMW SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION ; COMMWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION

Inventor(s): (std): WILLIAM LOWENTHAL JOHN ; SMITH CRAIG ALLEN ; SMITH CRAIG ; SMIT KREJG ; SINKLER EHNDRJU KHENRIK ; SINCLAIR ANDREW HENRIK ; MUR ROBERT DZHON ; MOORE ROBERT JOHN ; LOWENTHAL JOHN WILLIAM ; LOUEHNTAL DZHON UILL JAM ; JOHN MOORE ROBERT ; JAMES DORAN TIMOTHY ; DORAN TIMOTI DZHEJMS ; DORAN TIMOTHY JAMES ; C SMITH ; A H SINCLAIR

Inventor(s): JOHN WILLIAM LOWENTHAL ; ROBERT JOHN MOORE ; TIMOTHY JAMES DORAN

Agent(s): FB RICE ; FB RICE PTY LTD ; BRASNETT ADRIAN HUGH ; DEACONS ; GREENLEE SULLIVAN PC ; FB RICE AND CO

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

6) Family number: 43024419 (US2011129825A)

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Title: COMPOSITIONS, METHODS AND SYSTEMS FOR THE SIMULTANEOUS DETERMINATION OF PARENTAGE, IDENTITY, SEX, GENOTYPE AND/OR PHENOTYPE AND BREED DETERMINATION IN ANIMALS

Abstract: The invention provides for a universal genetic evaluation system capable of simultaneously determining multiple genetic characteristics in domestic and wild animals. In particular, the invention provides for the use of polymorphisms, such as single nucleotide polymorphisms (SNPs), insertions, deletions, inversions, and/or other mutations within gene sequences, as determinants of genetic characteristics, such as parentage, identity, sex, genotype and/or phenotype. The universal genetic evaluation system is utilized to simultaneously determine multiple genetic characteristics in horses and wild horses, dogs and wild canids, cats, goats and wild goats, sheep and wild sheep, cattle, bison, deer (cervidae), donkeys, mules, swine and wild swine, camelids and wild camelids, other domestic and certain species of wild animals (deer, elk, red deer, antelope, caribou and reindeer, moose and other exotic deer and antelope species), birds (including pet birds and commercial bird species), reptiles, amphibians, fish and rodents, concurrently for each species.

Classifications:

International (IPC 8-9): C12M1/34 C12Q1/68 C40B30/04 C40B40/06
G06F19/00 (Advanced/Invention);

C12Q1/68 C40B30/04 C40B40/04 G06F19/00 (Core/Invention)

CPC: C12Q2600/106 C12Q2600/124 C12Q2600/156 C12Q1/6879

C12Q1/6881 C12Q1/6888

European: C12Q1/68M10 C12Q1/68M2 C12Q1/68M4

US: 435/287.2 435/287.200S 435/6.11 435/6.110P

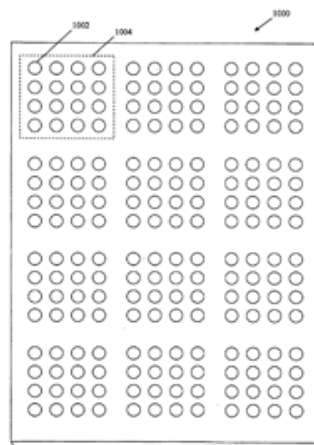


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
CA2702701 AA	20090319	CA20082702701	20080803
US2011129825 AA	20110602	US20080733032	20080803
WO09035792 A1	20090319	WO2008US72044	20080803

Priority:

US20070935298P 20070803 US20080733032 20080803 WO2008US72044 20080803

Probable Assignee: KETCHUM MELBA

Assignee(s): (std): KETCHUM MELBA ; KETCHUM MELBA STINNETT

Inventor(s): (std): KETCHUM MELBA ; KETCHUM MELBA STINNETT

Agent(s): WAGENKNECHT RAYMOND

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

7) Family number: 10598536 (US5575237A)

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Title: Method of hatching avian eggs

Abstract: PCT No. PCT/GB93/02565 Sec. 371 Date Aug. 23, 1995 Sec. 102(e) Date Aug. 23, 1995 PCT Filed Dec. 16, 1993 PCT Pub. No. WO94/13132 PCT Pub. Date Jun. 23, 1994A method of hatching eggs of avian species, especially chickens, which comprises carrying out at least one cycle of steps (a) and (c) as follows: (a) incubating the eggs in a first, baseline ambient environment which is normal for hatchery incubation of the eggs of the avian species in the prevailing climatic conditions and then during a sex-sensitive time window of embryonic development, (b) altering the ambient environment to shifted conditions for a period of time effective to bias the normal phenotypic sex ratio of the embryos, without significant adverse effect on the average mortality rate, and (c) thereafter restoring the incubation conditions to or towards normal and allowing the eggs to hatch. Preferably the ambient environment comprises a temperature of 37.5 DEG C. and the shifted conditions comprise reduced temperature, especially a temperature maintained at about 22 DEG C. for a period of from 18 to 42 hours. The method may be used to produce birds which are chromosomally male (ZZ) but phenotypically female or chromosomally female (ZW) but phenotypically male.

Classifications:

International (IPC 8-9): A01K41/00 A01K67/02 (Advanced/Invention); A01K41/00 A01K67/00 (Core/Invention)

International (IPC 1-7): A01K41/00 A01K67/02

CPC: A01K41/00 A01K67/02

European: A01K41/00 A01K67/02

US: 119/300 119/311 119/6.8 119/68

Family:

Publication number	Publication date	Application number	Application date
AT168854 E	19980815	AT19930902876T	19931216
CA2151608 AA	19950612	CA19932151608	19931216
DE69320063 D1	19980903	DE19936020063	19931216
DE69320063 T2	19990114	DE19936020063T	19931216
DK0675678 T3	19990503	DK19930902876T	19931216
EP0675678 A1	19951011	EP19940902876	19931216
EP0675678 B1	19980729	EP19940902876	19931216

ES2121181 T3	19981116	ES19940902876T	19931216
GB2273431 A1	19940622	GB19930025771	19931216
GB9226179 A0	19930210	GB19920026179	19921216
GB9325771 A0	19940216	GB19930025771	19931216
GR3027711 T3	19981130	GR19980401888T	19980820
US5575237 A	19961119	US19950481428	19950823
WO9413132 A1	19940623	WO1993GB02565	19931216

Priority:

GB19920026179 19921216 WO1993GB02565 19931216

Probable Assignee: VICTORIA UNIV OF MANCHESTER

Assignee(s): (std): BRITISH TECH GROUP ; FERGUSON MARK WILLIAM JAMES ; UNIV MANCHESTER

Assignee(s): VICTORIA UNIV ; THE VICTORIA UNIVERSITY OF MANCHESTER MANCHESTER GB ; VICTORIA UNIV OF MANCHESTER ; THE VICTORIA UNIVERSITY OF MANCHESTER ; THE VICTORIA UNIVERSITY OF MANCHESTER MANCHESTER G ; BRITISH TECHNOLOGY GROUP LIMITED ; BRITISH TECHNOLOGY GROUP LTD

Inventor(s): (std): FERGUSON MARK W J ; FERGUSON MARK WILLIAM JAMES

Inventor(s): FERGUSON MARK WILLIAM JAMES STOCKPORT CHESHIRE SK4 ; FERGUSON MARK WILLIAM JAMES STOCKPORT CHESHIRE SK4 4PL GB ; MARK WILLIAM JAMES FERGUSON

Agent(s): FETHERSTONHAUGH AND CO

Designated states: AT BE CA CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE US

8) Family number: 34023648 (US2009286266A)

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Title: METHOD OF DETERMINING THE SEX OF BIRDS, REPTILES AND MAMMALS USING STEROID HORMONES

Abstract: The present invention consists in the design of an ELISA test, specific to determine through fecal feces, urine or plasma of birds, reptiles and mammals, the levels of concentration of the hormone testosterone as an indicator of masculine sex in these species for a better handling of the reproduction and the production of birds, reptiles and mammals. The procedure can be applied for practical purposes in any commercial operation that involves these species. With this method a greater efficiency and economic return is obtained, which reports improvement and greater benefits to the producers.

Classifications:

International (IPC 8-9): A01K45/00 A01K67/02 G01N21/00 G01N33/00 G01N33/53 G01N33/68 G01N33/74 (Advanced/Invention); G01N21/00 G01N33/00 G01N33/53 G01N33/74 (Core/Invention)

CPC: G01N33/743 A01K45/00 A01K67/02 G01N33/689 Y10T436/200833

European: A01K45/00 A01K67/02 G01N33/68T G01N33/74B

US: 435/7.92 436/128 436/164

Family:

Publication number	Publication date	Application number	Application date
US2009286266 AA	20091119	US20060921963	20060613
US8859217 BB	20141014	US20060921963	20060613
WO06135222 A1	20061221	WO2006MX00051	20060613

Priority:

MX2005NL00051 20050613 WO2006MX00051 20060613

Probable Assignee: CENTRO DE INVESTIGACION EN MATERIALES AVANZADOS CIMAV

Assignee(s): (std): ORRANTIA BORUNDA ERASMO ; CT DE INVESTIGACION EN MATERIA ; RIVAS CACERES RAYMUNDO RENE ; CT DE INVESTIGACION EN MATERIALES AVANZA DOS S C CIMAV

Assignee(s): CENTRO DE INVESTIGACION EN MATERIALES AVANZA DOS SC CIMAV ; CENTRO DE INVESTIGACION EN MATERIALES AVANZADOS CI ; CENTRO DE INVESTIGACION EN MATERIALES AVANZADOS CIMAV ; CENTRO DE INVESTIGACION EN MATERIALES AVANZADOS S ; CENTRO DE INVESTIGACION EN MATERIALES AVANZADOS S C ; CENTRO DE INVESTIGACION EN MATERIALES AVANZADOS SC

Inventor(s): (std): ORRANTIA BORUNDA ERASMO ; RIVAS CACERES RAYMUNDO RENE

Agent(s): DEFILLO AND ASSOCIATES INC; EVELYN A

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

9) Family number: 8419665 (US5377618A)

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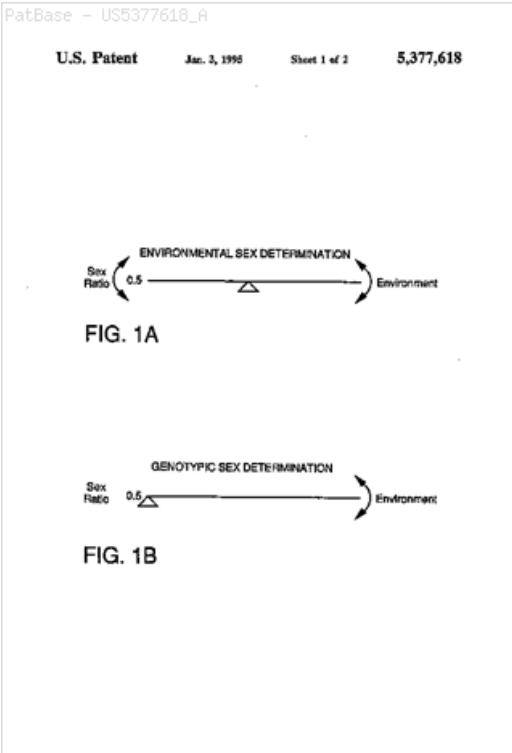
Title: Method for preferential production of ratites of a desired sex

Abstract: The present invention is a method for sex determination in ratites, such as ostriches. The method includes the steps of administering a material that causes sex to be determined to a fertilized ratite egg and incubating the egg until it hatches. Preferably, the administering step includes the step of injecting the material into the egg and preferably before the injecting step, there is the step of drilling a hole into the eggshell of the egg. The material that determines sex in ratites includes natural estrogens or a functionally equivalent amount of its synthetic mimics to cause female development and natural nonaromatizable androgens or a functionally equivalent amount of its synthetic mimics to cause male development. Preferably, the material is estradiol-17beta (for female development) or dihydrotestosterone (for male development). A solution may, for example, be comprised of 1.2 milligrams of estradiol-17beta preferably dissolved in 40 microliters of 95 percent ethanol, or 7.5 milligrams of dihydrotestosterone preferably dissolved in 100 microliters of 95 percent ethanol, respectively.

Classifications:

International (IPC 8-9): A01K45/00 A01K67/00 A01K67/02

A61D19/00 (Advanced/Invention);
A01K45/00 A01K67/00 (Core/Invention)
International (IPC 1-7): A01K31/00 A01K67/00 A01K67/02 A01K67/04
A61D19/00 A61K31/56 G01N33/00
CPC: A01K45/00 A01K45/007 A01K67/02
European: A01K45/00 A01K45/00C A01K67/02
US: 119/6.8 514/182



Family:

Publication number	Publication date	Application number	Application date
AU199341895 A1	19940203	AU19930041895	19930713
CA2101133 AA	19940201	CA19932101133	19930722
GB2269181 A1	19940202	GB19930015615	19930728
GB9315615 A0	19930908	GB19930015615	19930728
IL106522 A0	19931115	IL19930106522	19930729
JP6153742 A2	19940603	JP19930187753	19930729
MX9304551 A1	19940729	MX19930004551	19930728
PT101328 A	19940729	PT19930101328	19930730
US5377618 A	19950103	US19920922831	19920731
ZA9305160 A	19940208	ZA19930005160	19930716
ZW9493 A	19940309	ZW19930000094	19930730

Priority:

US19920922831 19920731 CA19932101133 19930722

Probable Assignee: REPRODUCTIVE SCIENCES INC

Assignee(s): (std): CREWS DAVID ; REPRODUCTIVE SCIENCES INC ; RIPURODAKUTEIBU SCI INC ; WIBBELS THANE

Inventor(s): (std): CREWS DAVID ; CREWS DAVID ; WIBBELS THANE ; WINNELS THANE ; SEIN UIBERUZU ; DEBITSUDO KURUUZU

Inventor(s): THANE WIBBELS ; DAVID CREWS ; DAVID CREWS ; THANE WINNELS

Agent(s): GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; MARUYAMA TOSHIYUKI; NISHIOKA NOBUYASU

10) Family number: 49299777 (KR20110084059A)

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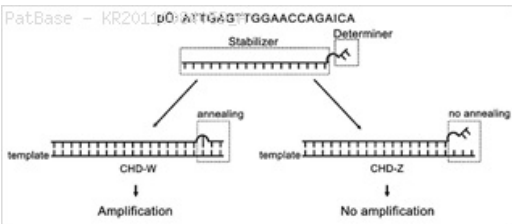
Title: METHOD FOR AVIAN SEX DETERMINATION USING NUCLEIC ACID AMPLIFICATION

Abstract: PURPOSE: A method for sex identification of birds using a nucleic acid amplification is provided to easily identify bird sex. CONSTITUTION: A method for sex identification of birds by a nucleic acid amplification comprises: a step of isolating nucleic acid from a bird; a step of performing amplification of the nucleic acid using a primer set; and a step of determining bird sex by detecting amplified nucleic acid products. The primer pair has a forward primer of sequence number 1 and a reverse primer of sequence number 2. The primer pair further contains a forward primer of sequence number 3. The amplification is performed by PCR.

Classifications:

International (IPC 8-9): C12N15/11 C12Q1/68 (Advanced/Invention)

CPC: C12Q1/6895 C12Q1/686 C12Q1/6879



Family:

Publication number	Publication date	Application number	Application date
KR101197625 B1	20121107	KR20100004113	20100115
KR20110084059 A	20110721	KR20100004113	20100115

Priority:

KR20100004113 20100115

Probable Assignee: NAT UNIV CHUNGBUK IND ACAD

Assignee(s): (std): NAT UNIV CHUNGBUK IND ACAD

Assignee(s): CHUNGBUK NATIONAL UNIV IND ACADEMIC COOPERATION FOUNDATION ; CHUNGBUK NATIONAL UNIVERSITY INDUSTRY ACADEMIC COOPERATION FOUNDATION

Inventor(s): (std): NA KI JEONG ; HAN JAE IK

11) Family number: 48141918 (US2012318981A)

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Title: METHOD AND DEVICE FOR DETERMINING THE SEX OF FERTILIZED, NONINCUBATED BIRD EGGS

Abstract: The invention relates to a method and a device (1, 100) for determining the sex of fertilized, nonincubated bird eggs (13, 130), where an egg (13, 130) has a solid egg shell (14), an egg yolk (2) which is surrounded by the egg shell and further egg integuments and a blastodisc (3) associated with the egg yolk (2), and where a probe (4, 40) for measuring a spectrum is introduced through a hole (17) of the egg shell (14) towards the blastodisc (3) with blastodisc cells (23), with the following steps: - positioning of the probe (4, 40) in the region of the blastodisc (3), --spectroscopic in-ovo characterization of the blastodisc cells (23), and --identification of the sex by an automatic classification of spectra.

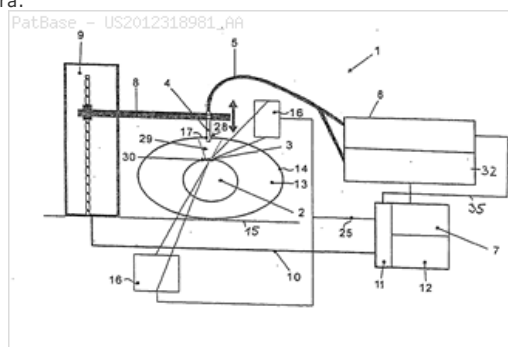
Classifications:

International (IPC 8-9): A01K45/00 C12Q1/00 G01J5/02 G01J5/08 G01N21/01 G01N21/35 G01N21/3563 G01N21/3577 G01N21/359 G01N21/55 G01N21/552 G01N33/08 G01N33/483 G01N33/74 G1N33/74 (Advanced/Invention)

CPC: G01N21/3563 G01N21/3577 A01K45/007 G01N21/359 G01N21/552 G01N33/08 G01N33/743 G01N2021/3595

European: A01K45/00C G01N21/35 G01N21/55B G01N33/08 S01N21/35G S01N21/35H S01N33/74B

US: 119/6.8 250/339.07 250/339.08 250/341.2



Family:

Publication number	Publication date	Application number	Application date
CA2787864 AA	20120723	CA20112787864	20110114
DE102010006161 B3	20110113	DE201010006161	20100121
DE502011010947 D1	20161201	DE201150010947T	20110114
EP2526405 A1	20121128	EP20110711247	20110114
EP2526405 B1	20161019	EP20110711247	20110114
US2012318981 AA	20121220	US20110574751	20110114
US8624190 BB	20140107	US20110574751	20110114
WO11088825 A1	20110728	WO2011DE000062	20110114
WO11088825 A8	20120809	WO2011DE000062	20110114

Priority:

DE201010006161 20100121

EP20110711247 20110114

WO2011DE000062 20110114

Probable Assignee: TECHNISCHE UNIVERSITAT DRESDEN

Assignee(s): (std): BARTELS THOMAS ; KOCH EDMUND ; STEINER GERALD ; KRAUTWALD JUNGHANNS MARIA ELISABETH ; LEIPZIG UNIV ; TECH UNIV DRESDEN ; UNIV DRESDEN TECH ; UNIV LEIPZIG

Assignee(s): TECHNISCHE UNIVERSITAT DRESDEN AND UNIVERSITAT LEI ; TECHNISCHE UNIV DRESDEN ; TECHNISCHE UNIVERSITAT DRESDEN AND UNIVERSITAT LEIPZIG ; TECHNISCHE UNIVERSITAT DRESDEN ; UNIVERSITAT LEIPZIG ; TECHNISCHE UNIVERSITAET DRESDEN ; UNIVERSITAET LEIPZIG

Inventor(s): (std): STEINER GERALD ; KRAUTWALD JUNGHANNS MARIA ELISABETH ; KOCH EDMUND ; BARTELS THOMAS

Agent(s): FINLAYSON AND SINGLEHURST; HEMPEL HARTMUT; HORST M

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

12) Family number: 56587935 (WO14086335A9)

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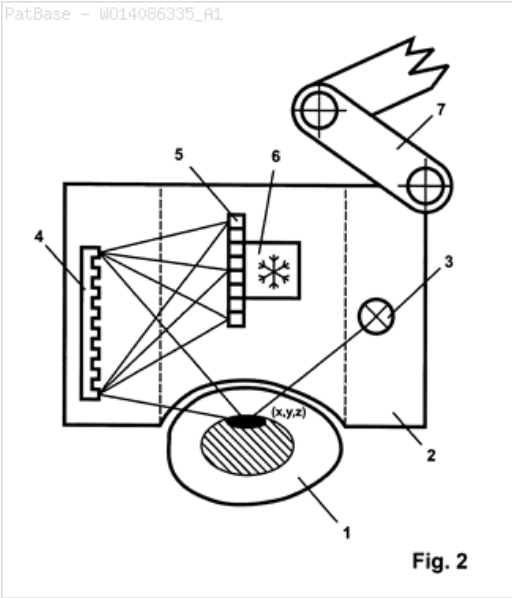
Title: METHOD AND ARRANGEMENT FOR NON-INVASIVE, NON-DESTRUCTIVE IDENTIFICATION OF MOLECULE-SPECIFIC AND/OR BIOLOGICAL PROPERTIES OF AN INTERNAL STRUCTURE OF A BIOLOGICAL EXAMINATION ITEM THROUGH AN OPTICALLY IMPENETRABLE BARRIER

Abstract: The invention relates to a method and an arrangement for non-invasive, non-destructive identification of molecule-specific and/or biological properties of an internal structure of a biological examination item through an optically impenetrable

barrier, according to the preamble of the claims, for example in the form of a method and of a device for determining the sex of bird embryos in ovo, in which method the shells of the birds' eggs to be examined do not have to be opened. The object of the invention is to make available a method which avoids the disadvantages of the prior art and in which the non-invasive identification of molecule-specific and/or biological properties of an internal structure of a biological examination item through an optically impenetrable barrier of the examination item is carried out directly on the internal structure, without the removal of sample material, wherein the examination item is penetrated to a significant extent without using ionizing radiation for this purpose, said object being achieved by the fact that, through an optically non-transparent barrier of an examination item, and in two method steps in the form of a locating and positioning step and an examining and evaluating step, the internal structure with different dielectric properties is located by means of electromagnetic spectral analysis, using electromagnetic pulses in the spectral range of 0.01 to 1 THz, and is assigned 3D spatial coordinates, this assignment of coordinates serving to position the measurement area of the examination item, and electromagnetic waves in the spectral range of 0.01 to 10 THz are transmitted through the optically non-transparent barrier onto the measurement area of the positioned examination item to be examined, and the radiation issuing from the measurement area and passing through the optically non-transparent barrier is received by a spectral receiver, wherein the integral spectrum of the measurement area, as detected by the receiver, is compared with reference data.

Classifications:

International (IPC 8-9): C40B20/00 G01B11/24 G01J3/28 G01N21/31
G01N21/3581 G01N33/08 G01N33/50 (Advanced/Invention)
CPC: G01N33/08 G01N21/3581



Family:

Publication number	Publication date	Application number	Application date
DE102012023947 A1	20140605	DE201210023947	20121203
DE102012023947 B4	20161124	DE201210023947	20121203
DE502013009805 D1	20180426	DE201350009805T	20131202
EP2926129 A1	20151007	EP20130828974	20131202
EP2926129 B1	20180328	EP20130828974	20131202
ES2675194 T3	20180709	ES20130828974T	20131202
PL2926129 T3	20181031	PL20130828974T	20131202
WO14086335 A1	20140612	WO2013DE000784	20131202
WO14086335 A9	20140731	WO2013DE000784	20131202

Priority:

DE201210023947 20121203 EP20130828974 20131202 WO2013DE000784 20131202
WO2013DE000784 20131202

Probable Assignee: INST F PHOTONISCHE TECHNOLOGIEN E V IPHT

Assignee(s): (std): INST F PHOTONISCHE TECHNOLOGIEN E V ; INST F PHOTONISCHE TECHNOLOGIEN E V IPHT ; LEIBNIZ INST F PHOTONISCHE TECHNOLOGIEN E V ; LEIBNIZ INST F PHOTONISCHE TECH E V

Assignee(s): LEIBNIZ INST F PHOTONISCHE TECHNOLOGIEN EV ; F PHOTONISCHE TECHNOLOGIEN EV INST ; F PHOTONISCHE TECHNOLOGIEN EV IPHT INST

Inventor(s): (std): WEBER KARINA ; WEBER KARIN ; POPP JUERGEN ; MAY TORSTEN

Agent(s): PATENT U RECHTSANWALTSKANZLEI BOCK BIEBER DONATH PARTNERSCHAFTSGESELLSCHAFT; DONATH DIRK; TOMAS TESIFONTE ENRIQUE; DONATH DIRK ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

13) Family number: 15012950 (US5508165A)

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Title: AVIAN SEX DETERMINATION PROBE

Abstract: Avian cDNA nucleotide sequences for use as hybridization probes are provided. Probes derived from the sequences find use in defining the sex of a bird, usually by producing hybridization patterns that are sex-specific for most avian species. For a given avian species the probes may hybridize to both Z and W chromosomes so as to differentiate between the two chromosomes on the basis of restriction fragment length polymorphisms. Alternatively, the probes may hybridize exclusively to one of the two sex chromosomes in some species. The hybridization probes taught are also useful for the isolation of other nucleotide sequences that may be used to generate sex-specific hybridization patterns.

Classifications:**International (IPC 8-9):** C12Q1/68 (Advanced/Invention);

C12Q1/68 (Core/Invention)

International (IPC 1-7): C07H21/04 C12P19/34 C12Q1/68**CPC:** Y10T436/143333 C12Q2600/156 C12Q1/6879**European:** C12Q1/68M2**US:** 435/320.1 435/6 435/6.11 435/6.12 435/91.2 436/94 536/24.3 536/24.31 536/24.33**Family:**

Publication number	Publication date	Application number	Application date
US5508165 A	19960416	US19940194131	19940209
US5707809 A	19980113	US19960634331	19960412

Priority:

US19900585915 19900921

US19920947100 19920917

US19940194131 19940209

US19960634331 19960412

Probable Assignee: PERKIN ELMER CORP**Assignee(s):** (std): ZOOGEN INC ; PERKIN ELMER CORP**Assignee(s):** APPLERA CORP ; APPLIED BIOSYSTEMS INC ; APPLIED BIOSYSTEMS LLC ; PE CORP ; PE ZOOGEN**Inventor(s):** (std): HALVERSON JOY L ; HALVERSON JOY ; DVORAK JAN**14) Family number: 49094965 (US2011144473A)**

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Title: METHODS FOR DETERMINING THE SEX OF BIRDS' EGGS

Abstract: The invention relates to methods for determining the sex of birds' eggs. It can be used for an early determination of the sex, in particular in poultry farming, and in this respect also with non-incubated eggs. In the method in accordance with the invention, electromagnetic radiation is emitted onto the blastodisk of an egg by a radiation source and, after a switching off of the radiation source, the decay behavior of the autofluorescence intensity excited by the electromagnetic radiation is detected by a detector at the irradiated region of the blastodisk with time resolution and spectral resolution for at least one wavelength of the autofluorescence. The fractal dimension DF is calculated using the determined measured intensity values and the value of the fractal dimension DF is compared with a species-specific and sex-specific limit value, wherein, when the limit value is exceeded, the respective egg is classified as female and, when it is not reached, the egg is classified as male.

Classifications:**International (IPC 8-9):** A01K45/00 A01K67/00 A61B5/05 A61B6/00

G01J3/44 G01N21/64 G01N33/08 (Advanced/Invention)

CPC: A01K45/007 G01N21/6408 G01N21/6486 G01N33/08

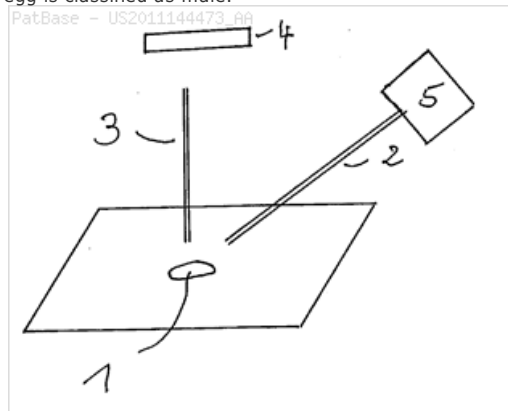
G01N2021/6484 G01N2201/0697 G01N2201/1293

European: A01K45/00C G01N21/64F G01N21/64R G01N33/08

S01N201/069P2 S01N201/129M S01N21/64P12

US: 119/50.7 119/6.8 356/326 424/9.6 600/407 600/407P 600/473

600/475 600/476 600/477 600/478

**Family:**

Publication number	Publication date	Application number	Application date
DE502009009929 D1	20141023	DE200950009929T	20091216
DK2336751 T3	20141117	DK20090015586T	20091216
EP2336751 A1	20110622	EP20090015586	20091216
EP2336751 B1	20140910	EP20090015586	20091216
US2011144473 AA	20110616	US20100960678	20101206
US8364247 BB	20130129	US20100960678	20101206

Priority:

EP20090015586 20091216

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