

Abkürzungsverzeichnis

AJ	Adherens Junctions
Ao	Aorta
Ao R-R	zeitlicher Abstand zweier Aortenausschläge im Doppler
AoV	Aortenwurzeldurchmesser
AoVmax	maximale Geschwindigkeit des Aortendopplers
Arm	Armadillo (von <i>Drosophila armadillo</i>)
ARVC	Arrhythmogene rechtsventrikuläre Kardiomyopathie
ASE	American Society of Echocardiography
Bpm	Herzschläge pro Minute (beats per minute)
CW-Doppler	Doppler im „continous wave“ modus
D	Desmosom
DNA	Desoxyribonukleinsäure
EDV	Enddiastolisches Volumen
EF	Ejektionsfraktion
EKG	Elektrokardiogramm
ES	Embryonale Stammzellen
ESV	endsystolisches Volumen
FS	Ventrikelverkürzungsfraktion; „fractional shortening“
HCM	Hypertrophische Kardiomyopathie
HNCM	hypertrophische nichtobstruktive Kardiomyopathie
HOCM	hypertrophische obstruktive Kardiomyopathie
HF	Herzfrequenz
HZV	Herzzeitvolumen
IF	Intermediäre Filamente
IVS	Interventrikuläres Septum
Kg	Kilogramm
KG	Körpergewicht
LA	Linkes Atrium
LV	Linker Ventrikel
LVET	Linksventrikuläre Ejektionszeit
LVOT	Linksventrikulärer Ausflusstrakt
LVPW	posteriore freie Wand des linken Ventrikels
MAP	Monophasisches Aktionspotential
M-Mode	Time Motion Mode
MV A-Pkt	Höchster Punkt der A-Welle im Mitraldoppler

MV E-Pkt	Höchster Punkt der E-Welle im Mitral Doppler
MV-Decelzeit	Dezelerationszeit der Mitralwelle in ms
MV Vmax	Maximale Geschwindigkeit des Mitral Dopplers
ND	noch nicht ermittelt (not determined)
Neo	Neomycin Genkassette
PCR	Polymerasekettenreaktion
PG	Plakoglobin
PKP	Plakophilin
p0071	Plakophilin 4
RACE-PCR	rapid amplification of cDNA ends Polymerase Kettenreaktion
RMV	real-time microvzualisation
RA	Rechtes Atrium
RT-PCR	Reverse Transkriptase Polymerase Kettenreaktion
RV	Rechter Ventrikel
RVD	rechtsventrikulärer Diameter
RVDV	rechtventrikuläres diastolisches Volumen
RVIT	rechtsventrikulärer Einflusstrakt
RVLAX	Länge des rechten Ventrikel
RVOT	rechtsventrikulärer Ausflusstrakt
RVSAX	Breite des rechten Ventrikel
SD	plötzlicher Herztod (sudden death)
SV	Schlagvolumen
TG	Transgenes Tier
TV	Trikuspidalklappe
Vcf	zirkuläre Faserverkürzung
VTI	Geschwindigkeits-Zeit-Integral
WT	Wildtyp

Anhang

Geräte

PCR

Multicycler PTC-200 (Peltier Thermal Cycler); (MJ Research, Waltham, USA)

Paraffinschnitte

Einbettautomat Citadel 1000 (Thermo Shandon Electron Corporation®; Waltham)

Rotationsmikrotom Type HM 325 mit Kühleinrichtung „cool-cut“ (Microm GmbH; Walldorf)

Paraffin Ausgießstation Type EC 350-2 und Kühlplatte (Microm GmbH; Walldorf)

Kühlstation EG 1130 (Leica Microsystems GmbH; Wetzlar)

Kryoschnitte

Kryotom „Leica CM 1900“ (Leica Microsystems GmbH; Wetzlar)

Elektronenmikroskopie

Ultramikrotom Leica Ultracut III (Leica Microsystems GmbH; Wetzlar)

Elektronenmikroskop Philips CM100 (Philips Medizin Systeme GmbH; Hamburg)

TVIPS Fastscan 1K CCD-Kamera (Tietz Video and Image Processing Systems GmbH; Gauting)

EKG-Gerät

Megacart (1993, Siemens, Erlangen)

AC 264 EKG Verstärker (EMKA Technologies, Paris)

ITF 16 EKG Verstärker (EMKA Technologies, Paris)

Selbstangefertigte Schlaufenelektroden aus dünnem Stahldraht

Ultraschallgerät

Sonos 5500 (Philips Medical Systems)

12 MHz Sektorschallkopf

15 MHz Linearschallkopf

Vevo 770 (VisualSonics Inc., Toronto)

30 MHz RMV Schallkopf

Narkosegerät

RUS-13-GA Inhalationsnarkose System (FMI Föhr Medical Instruments, Seeheim-Ober Beerbach)

Vevo Compact Anesthesia System (VisualSonics Inc., Toronto)

Zentrifuge

Wärmeplatten

TKM-0902 Temperatur-Kontrollmodul (FMI Föhr Medical Instruments, Seeheim-Ober Beerbach)

Vevo Mouse Handling Table (VisualSonics Inc., Toronto)

Elektrischer Rasierer

Golden A4, Model 5-55E (Oster, USA)

Software

iox 1.6.7 Cardiology Research Software (EMKA Technologies, Paris)

ecg Auto 1.5.7.36 Multi-species Multi-leads Analysis Software (EMKA Technologies, Paris)

Datenaquisitions-Software, basierend auf der LabVIEW Programmiersprache

Semi-automatische EKG-Analyseprogramm, basierend auf der LabVIEW

Programmiersprache

EKG-Analyseprogramm, visual basic basiert (signetix, Bielefeld)

Verbrauchsmaterialien

Desinfektion

Neo-Kodan, farblos (Schülke&Mayr, Norderstedt)

Handschuhe

Safeskin*Satin Plus*, Größe S (Kimberly-Clark, Koblenz-Rheinhafen)

Klebeband

Leukoplast® (BSN Medical GmbH&CoKG., Hamburg)

Narkotika

Isofluran Curamed (250ml, CuraMED Pharma GmbH, Karlsruhe)

Speichermedien

Platinum® CD-R 80min/700 MB

Magneto optical Disk, Fujifilm 1,3GB MO rewritable

Ultraschallgel

Aquasonic® 100 (Parker Laboratories, INC, Fairfield)

Sonstiges

Enhaarungscreme Plica® med (ASID BONZ GmbH, Böblingen)

Elektrodencreme (Marquette Hellige GmbH, Freiburg)

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Selbständigkeitserklärung

Hiermit bestätige ich, dass ich die vorliegende Arbeit selbständig angefertigt habe. Ich versichere, dass ich ausschließlich die angegebenen Quellen und Hilfen in Anspruch genommen habe.

Berlin, den 08.05.2006