Please note that only typewritten applications will be accepted. Should additional space be required for section "I" and/or "j", please use the back of this form.

ANIMAL ETHICS SCREENING COMMITTEE

a.	Name:	Gavin Norton	•				
b.	Department:	Physiology					
					A]	ESCNO):
c.	Experiment to	be modified/extended			99	1	2b
d.	Project title:	Isoprenaline-induced cardi	ac remodelling.				
e.	Number and	species of animals originally a	pproved:	90	Spra	ngue-Daw	ley rats
		-		80	SHI	₹	
				80	WK	Y	,
f.	Number of ac	lditional animals allocated on	M&Es:				
g.	Total number	of animals allocated to the ex	speriment to date:	90	Spra	ague-Daw	ley rats
Б.			•	80	SHI	<u> </u>	•
				80	WK	Υ	
h.	Number of a	nimals used to date:		0	Snra	ague-Daw	lev rats
11.	Number of a	minus used to dute.		30	+		,
				24	wĸ	Υ	
i.	10 x young (± 10 x old (>9 m	ication / extension requested: 4 months) Long-Evans rats. onths) Long-Evans rats.					
j.	We have show We attribute the data to support species as well WKYs for con	modification / extension: n an increase in total myocardi nis increase to age as well as sp this concept. Hence we need as young versus old rats. We nparison. However in addition r example, young and old Lon	pecies differences. In order to measure total collagen of already have data on youn n we need to compare a this	r to co once g and	onvince ntrations I old Sp	reviewers s in rats of rague-Dav	s we need f different wleys and
Date:	16/0	28/99	Signature		A	Task	
RECO	<u>MMENDATIO</u>	<u>NS</u>	•				
Data			Signature:	••••••			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Date	,	***************************************	O	Chai	rman, A	AESC	

UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG

ANIMAL ETHICS SCREENING COMMITTEE

CLEARANCE CERTIFICATE NO:

2002	37	5

APPLICANT: Pr

Professor G Norton

DEPARTMENT:

School of Physiology

PROJECT TITLE.

Effect of Pentoxifylline On Cardiac Remodeling In Adrenergic-Mediated Cardiac

Dilatation In Rats

Species	Number	Expiry Date
Sprague dawley	48	2004
SHRs (rats)	48	2004
WKYs (rats)	48	2004

i) Approval is hereby given for the experiment described in the above application.

The use of these animals is subject to AESC Guidelines for the use and care of animals, is limited to the procedures specified in the application form, and to:

APPROVED

SIGNED

(Chairman: Animal Ethics Screening Committee)

DATE: 2 May 2002

ii) I am satisfied that the persons listed in this application are competent to perform the procedures therein, in terms of Section 23(1)(c) of the Veterinary and Para-veterinary Professions Act (19 of 1982)

SIGNED

(Registered Veterinarian)

DATE: 2 May 2002

NOTE:

First-time users of the CAS should contact the Director of the CAS in order to familiarise themselves with the facilities available, and the procedures required by the CAS for the carrying out of experiments.

AESC 3

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UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG

ANIMAL ETHICS SCREENING COMMITTEE

CLEARANCE CERTIFICATE NO:

2002	39	5

APPLICANT: Professor G Norton

DEPARTMENT:

School of Physiology

PROJECT TITLE:

Effect of Antioxidant and an Aldosterone Receptor Antagonist On Cardiac

Remodeling In Adrenergic- Mediated Cardiac Dilatation In Rats

Species	Number	Expiry Date
SHR (rats)	72	2004
WKY (rats)	48	2004

i) Approval is hereby given for the experiment described in the above application.

The use of these animals is subject to AESC Guidelines for the use and care of animals, is limited to the procedures specified in the application form, and to:

APPROVED

SIGNED

DATE: 2 May 2002

I am satisfied that the persons listed in this application are competent to perform the procedures therein, ii) in terms of Section 23(1)(c) of the Veterinary and Para-veterinary Professions Act (19 of 1982)

SIGNED

(Registered Veterinarian)

DATE: 2 May 2002

NOTE:

First-time users of the CAS should contact the Director of the CAS in order to familiarise themselves with the facilities available, and the procedures required by the CAS for the carrying out of experiments.

AESC'4/2001 ANIMAL ETHICS SCREENING COMMITTEE

a.	Name: Professor Gavin Norton, (Demetri Veliotes to perform experiment detailed below).	n speci	ific modifi	cations to		
b.	Department: School of Physiology					
c.	Experiment to be modified / extended			AES	SC I	NO:
			2002	39	5	
d.	Project Title: Effect of antioxidant and an aldosterone recepto in adrenergic mediated cardiac dilatation in rats.	r antag	gonist on c	ardiac rem	odell	ing
e.	Number and species of animals originally approved:					
		72	SHR			
		48	WKY			
f.	Number of additional animals previously allocated on M&Es:		None			
			None			
g.	Total number of animals allocated to the experiment to date:					
		61	SHR		,	
h.	Number of animals used to date:					
•••	2 	61	SHR			
i.	Specific modification / extension requested: We would like to measure 72 hour urinary aldosterone secretion is abovementioned study. There will be three groups of ten rats each measurements. Two of the groups will be SHRs and the third will will comprise rats presently receiving a beta-adrenergic agonist (I receiving a placebo. The rats will be placed in metabolic cages for hour urine sample will be collected. This will then be analysed for radioimmunoassay technique (obtained from Diagnostic Products)	h in wh be WI SO) or r 3 day r urine	nich we wi KY rats. The placebo. The s. During the aldosteron	ll perform t ne two SHR The WKY r hese three o	l grou ats are days a	e 172
j.	Motivation for modification / extension: In order to better define the mechanism by which an aldosterone SPIRO) mediates its beneficial effects on adrenergic induced adv define whether ISO induces increases in aldosterone synthesis in determining aldosterone synthesis is by measuring urinary aldost whether or not ISO is associated with increased aldosterone synth mechanism through which SPIRO may mediate its' beneficial eff	erse ca vivo. T erone e lesis, w ects on	rdiac remo The least in excretion. To exe could po adverse ca	delling we vasive metl hus by dete stulate a po ardiac remo	need to nod fo ermini otentia	to r ing il
Date:	24 (06/2003 Signature:	W	Dex)		
	MMENDATIONS:					
Ap	proved: collection of vine fro	m.	30 го Л	Js.		
Date:	proved: collection of vine from 25/6/03 Signature: D. A.	. C	A IZM			

AESC1/2004: APPLICATION for APPROVAL to undertake a RESEARCH/TEACHING This form is also ¿vailable on disk (Word Perfect or MSWord 97)

PROJECT using ANIMALS.

APPLICATION NO. 48 2004

Pro	niec	t T	itle:	

Pilot study to develop and assess the validity of a rodent model of myocardial infarction in South Africa.

DECLARATION BY INVESTIGATOR

NB: Undergraduate and honours students may not sign this declaration.

- I am suitably qualified to perform or supervise the procedure proposed. 1.
- The experiment is likely to advance biological knowledge, or is necessary for teaching students. 2.
- The work does not to my knowledge unnecessarily repeat other experiments. 3.
- The experiment has been designed so as not to be wasteful of animals. 4.
- The experiment has been designed to minimise discomfort, stress or distress in the animals. 5.
- Having carefully considered all possible alternatives, I am satisfied that it is impossible to attain the objectives 6. in any other way.
- I have read the "Guidelines for the Use and Care of Animals" published by the Animal Ethics Screening 7. Committee.
- I shall comply with any restrictions or modifications required by the AESC. 8.
- I agree that at any time during the experiment to provide the Chairman of the AESC with a progress report 9. about the work, if requested to do so.
- Please list the clearance numbers of all existing applications that are related to, or have a bearing on, this new 10. application.

Signature:	
Name: (in capitals)	Gavin R. Norton
University Department	Physiology
Date:	07/04/2004

This form is also available on disk (Word Perfect 6 or MSWord 97)

Please note that only typewritten applications will be accepted. Should additional space be required for section "I" and/or "j", please use the back of this form.

ANIMAL ETHICS SCREENING COMMITTEE

a.	Name: Gavin R	Norton			
Ъ.	Department: S	chool of Physiology			
c.	Experiment to be	e modified / extended		AESC NO	!
			2004	48	4
d.	Project Title:	A pilot study to assess the validity of a rodent mode Africa.	l of myocard	lial infarction	n in South
e.	Number and speci	es of animals originally approved:			
			45		
f.	Number of addition	nal animals previously allocated on M&Es:			
			0		
g.	Total number of a	nimals allocated to the experiment to date:			
			45		
h.	Number of animal	s used to date:			
			45		
i.	Specific modificat	ion / extension requested:	43		
	Rats to be Food de	•			
•		•			
j.	Motivation for mo	dification / extension:			
	A) B)	Refer to page attached To include Adriano Dello Iacono (BSc, BSc Hono and Nelson Alves (BSc, BSc Honours completing co-investigators in the study. Their role will be to a and food administration, all of which they have pr their BSc Honours degree.	in 2004 in p	hysiology) a weight, run	is ning distance
Date:	21/09/2004				
Signatu	re: A	WE SOLF			
RECO:	MMENDATIONS	Approved.			
Date:	2	2/04/04	> /	1, G	ray
Signatu	re:			Chairman, Al	ESC

Please note that only typewritten applications will be accepted. Should additional space be required for section "I" and/or "j", please use the back of this form.

ANIMAL ETHICS SCREENING COMMITTEE

a.	Name: Gavin R. Norton					
b.	Department: School of Physiology					
c.	Experiment to be modified / extended		AESC NO:			
		2004	48	4		
d.	Project Title: A pilot study to assess the validity of a rodent mo Africa.	del of myocar	dial infarcti	on in South		
e.	Number and species of animals originally approved:	45				
f.	Number of additional animals previously allocated on M&Es:	<u> </u>				
		0				
g.	Total number of animals allocated to the experiment to date:	<u> </u>				
ħ.	Number of animals used to date:	45				
i.	Specific modification / extension requested:	 				
	Rats to be Food deprived					
j.	Motivation for modification / extension:					
	A) Refer to page attached B) To include Adriano Dello Iacono (BSc, BSc H and Nelson Alves (BSc, BSc Honours comple co-investigators in the study. Their role will be and food administration, all of which they have their BSc Honours degree.	ting in 2004 ii to monitor bo	dy weight,	running distance		
Date:	21/09/2004					
Signat	ture: New York					
REC	OMMENDATIONS:					
*********		***************************************	*****************	***************************************		
Date:	22/04/04					
Signa	ature:		Chairmar	, AESC		

Please note that only typewritten applications will be accepted. Should additional space be required for section "I" and/or "j", please use the back of this form.

ANIMAL ETHICS SCREENING COMMITTEE

Name: Gavin R. Norton			
Name. Gavin Gave			
Department: School of Physiology		AESC N	O:
Experiment to be modified / extended	2004	48	4
Project Title: A pilot study to assess the validity of a rodent mode Africa.	el of myoca	rdial infarct	ion in South
Number and species of animals originally approved:	45		
Number of additional animals previously allocated on M&Es:	0		
Total number of animals allocated to the experiment to date:			and the second section is the second section of the section of the second section of the section of the second section of the section of th
Number of animals used to date:	45		
 i. Specific modification / extension requested: We request permission for a group of rats with a myocardial infarce groups. One group will receive daily subcutaneous injections of the losartan (15 mg/kg/day in approximately 0.5 mls of the vehicle, 0.1 losartan (15 mg/kg/day in approximately 0.5 mls of the vehicle, 0.9% saline) daily injections of the vehicle (0.5 mls of the vehicle, 0.9% saline) between 4 and 6 months depending on echocardiographic outcom j. Motivation for modification / extension:). The durati	gned to one in H recepte and one gr ion of the in	of two treatments of antagonist, bup will receive a spections will be
See attached document			
ignature: Approved unclusion of locartan Approved 1/1/2005 Approved 2005	ads	nink	stration
Signature: A Cray		Cha	irman, AESC
November 2000			

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UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG

ANIMAL ETHICS SCREENING COMMITTEE

CLEARANCE CERTIFICATE NO:

2004 59 4

APPLICANT:

Professor G Norton

DEPARTMENT:

School of Physiology

PROJECT TITLE:

Impact of Left ventricular Hypertrophy on Myocardial Infarction-Induced

Ventricular Remodeling in Rats

Species	Number	Expiry Date
Sprague Dawley	76	July 2006
Rats	38	July 2006
Rats	38	July 2006

i) Approval is hereby given for the experiment described in the above application.

The use of these animals is subject to AESC Guidelines for the use and care of animals, is limited to the procedures specified in the application form, and to:

APPROVED

SIGNED

(Chairman: Animal Ethics Screening Committee)

DATE: 1 July 2004

ii) I am satisfied that the persons listed in this application are competent to perform the procedures therein, in terms of Section 23(1)(c) of the Veterinary and Para-veterinary Professions Act (19 of 1982)

SIGNED

(Registered Veterinarian)

DATE: 1 July 2004

NOTE:

First-time users of the CAS should contact the Director of the CAS in order to familiarise themselves with the facilities available, and the procedures required by the CAS for the carrying out of experiments.

UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG

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ANIMAL ETHICS SCREENING COMMITTEE (AESC)

CLEARANCE CERTIFICATE NO.

2006/37/04

APPLICANT:

Ms D Badenhorst

SCHOOL:

Physiology

DEPARTMENT:

LOCATION:

Medical School

PROJECT TITLE:

Effect of B-adrenoreceptor agonist stimulation on myocardial

matrix metalloproteinase activityand expression in spontaneously

hypertensive rats

Number and Species

24 SHR and 24 WKY/Wistar rats (all male)

Approval was given for to the use of animals for the project described above at an AESC meeting held on 20060425. This approval remains valid until 20080224.

The use of these animals is subject to AESC guidelines for the use and care of animals, is limited to the procedures described in the application form and to the following additional conditions:

None

Signed:	D. A. Gray (Chairperson AESC)	Date:	04/05/06
I am satisfied the in terms of Sect	nat the persons listed in this application ar ion 23 (1) (c) of the Veterinary and Para-V	e competent to pe eterinary Professi	erform the procedures therein, ons Act (19 of 1982)
Signed:	(Registered Veterinarian)	Date: _	04/05/06

cc: Supervisor: Professor G Norton

Director: CAS

Works 2000/lain0015/AESCCert.wps

UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG

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ANIMAL ETHICS SCREENING COMMITTEE (AESC)

CLEARANCE CERTIFICATE NO.

2006/47/04

APPLICANT:

Professor AJ Woodiwiss

SCHOOL:

Physiology

DEPARTMENT: LOCATION:

Medical School

PROJECT TITLE:

Effect of the aldosterone receptor antagonist, spironolactone,

on B-adrenergic receptor-induced myocardial apoptosis

Number and Species

40 SHR and 40 Wistar/WKY rats (all male)

Approval was given for to the use of animals for the project described above at an AESC meeting held on 20060425. This approval remains valid until 20080224.

The use of these animals is subject to AESC guidelines for the use and care of animals, is limited to the procedures described in the application form and to the following additional conditions:

List of all drugs to be used must be provided

Signed:	(Chairperson, APSC)	Date:	04/04/06	
I am satisfied that in terms of Sectior	the persons listed in this application are n 23 (1) (c) of the Veterinary and Para-Ve	e competent to pe eterinary Professio	rform the procedures thereins Act (19 of 1982)	in
Signed:	(Registered Veterinarian)	Date:	04/05/06	_
cc: Supervisor:				

cc: Supervisor: Director: CAS

Works 2000/lain0015/AESCCert.wps