Document 4: Summary – Original Basis for CIRM MES Regulations

Summary: Original Basis for CIRM MES Regulations

Prepared for ICOC Consideration 08/02/06

Reference

S 100010	Issue	Source	Comment
S 100020	Issue	Source	Comment
(a)	Acceptably derived	SWG	Section 100080, defines conditions for acceptable research ma Authority derived from CA H&S code 125290.35 (b) The ICOC shall establish standards as follows: (1) informed consent, (2) controls on research involving huma prohibition on compensation, (4) patient privacy laws (5) limit payments for cells, (6) time limits for obtaining cells.
(h)	CIRM	P71	California Institute for Regenerative Medicine: Authorized by

Document 4: Summary – Original Basis for CIRM MES Regulations

S 100020	Issue	Source	Comment	Reference
(a)	Acceptably	SWG	Section 100080, defines conditions for acceptable research materials.	<u>CA_H&S_12590.55</u>
	derived		Authority derived from CA H&S code 125290.35	<u>(b)(2)</u>
			(b) The ICOC shall establish standards as follows:	
			(1) informed consent, (2) controls on research involving humans, (3)	
			prohibition on compensation, (4) patient privacy laws (5) limitations on	
			payments for cells, (6) time limits for obtaining cells.	
(b)	CIRM	P71	California Institute for Regenerative Medicine: Authorized by Article 35:	<u>CA Constitution</u>
			Section 1. There is hereby established the California Institute for Regenerative	XXXV
			Medicine.	
(c)	Covered stem	SWG	SWG intended to capture relevant materials and activities not currently	Working Notes 7
	cell line		covered by existing regulations or oversight guidelines, see Working Notes 7.	<u>WC_018</u>
	—	554	Definition revised and modified in response to public comment.	
(d)	Funded research	P71	Authorized by Article 35:	CA Constitution XXXV
			SEC. 2. The institute shall have the following purposes:	ΔΛΛΥ
			(a) To make grants and loans for stem cell research, for research facilities, and	Interim GAP
			for other vital research opportunities to realize therapies, protocols, and/or	
			medical procedures that will result in, as speedily as possible, the cure for,	
			and/or substantial mitigation of, major diseases, injuries, and orphan diseases.	
			see: Interim CIRM Grants Administration Policy for Academic	
(-)	II	THIC	and Non-Profit Institutions	45CFR Part 46
(e)	Human Subject	HHS	From the Federal Common Rule.	<u>45CFR Part 46</u>
(f)	Institution IRB	HHS	From the Federal Common Rule.	45CFR Part 46
(g)	Permissible	HHS P71 &	Intuitional Review Board: From the Federal Common Rule.	CA H&S Code 1252
(h)		SWG	Authority derived from CA H&S code 125290.35(b)(3) The ICOC shall establish "standards prohibiting compensation to research	<u>CA Has Code 1252</u> 90.35(b)(3)
	expenses	200	donors or participants, while permitting reimbursement of expenses."	<u> </u>
			see: Interim CIRM Grants Administration Policy for Academic and Non-Profit	SWG 01/30/06
			Institutions.	Transcript P205.L24
			1151111110115.	
		11110		Interim GAP
(i)	Research	HHS	From the Federal Common Rule.	45CFR Part 46
(j)	(SCNT)	NIH	Somatic Cell Nuclear Transfer: Modified definition from NIH Report on Stem	<u>NIH Appendix F</u>

Document 4.	<u>Summary – Original E</u>	basis jor CI.		1
			Cells appendix F. Modifications based on public comment.	<u>SWG_05/03/06_#2</u>
(k)	SCRO committee	NAG	Stem Cell Research Oversight committee: Based on NAG recommendation. SCRO committee review described in section 100070.	NA Guidelines 2.0
S 100030	Issue	Source	Comment	Reference
(a)	Human	P71 &	Article 35 Section:	CA Constitution
	reproductive	NAG	No funds authorized for, or made available to, the institute shall be used for	XXXV
	cloning		research involving human reproductive cloning. "human reproductive	H&S Code 125292.10
			cloning" is defined in P71. NAG recommended that "Human reproductive	NA Guidelines 1.1(b)
			cloning should not now be practiced. It is dangerous and likely to fail."	
(b)	12 day limit on	P71 &	NA Guidelines have a 14 day limit, P71 sets limit of "12 days after cell	H & S Code
	culture of embryo	NAG	division begins."	<u>125290.35(b)(6)</u>
(c)	Stem cells into primate embryos	NAG	Direct recommendation of NAG.	NA Guidelines 1.2(c)(2)
(d)	Stem cells into human embryos	NAG	Direct recommendation of NAG.	NA Guidelines 1.2(c)(2)
(e)	Breeding animals with human stem	NAG	Direct recommendation of NAG.	NA Guidelines 1.2(c)(3)
	cells			
(f)	Implanting	SWG	Provision added in response to public concern that research will result in	SWG 05 03 06 Tran
	genetically		inheritable genetic modification of human beings.	script P 224.
	modified embryo			
S 100040	Issue	Source	Comment	Reference
(a)	Designate	NAG	"All scientific investigators and their institutions, regardless of their field, bear	NA Guidelines 1.3
	responsible official		the ultimate responsibility for ensuring that they conduct themselves in accordance with professional standards and with integrity."	
(b)	Designate SCRO	NAG	"To provide oversight of all issues related to derivation and use of hES cell	NA Guidelines 2.0
	-		lines and to facilitate education of investigators involved in hES cell research,	
			each institution involved in hES cell research should establish an Embryonic	
			Stem Cell Research Oversight (ESCRO) committee."	
			Provision amended to require chancellor, CEO, or person with plenary	<u>WC030 #2</u>
			authority to designate responsible official.	
(c)	Designate IRB	NAG	"An IRB, as described in federal regulations at 45 CFR 46.107, should review	<u>NA Guidelines 3.1</u> <u>H & S Code 125300(b)</u>
		& CA	the procurement of all gametes, blastocysts, or somatic cells for the purpose of	<u>11 & 5 Couc 125500(0)</u>

Document 4: Summary – Original Basis for CIRM MES Regulations

<u>Boetanient n</u>	<u> Summary – Original E</u>		generating new hES cell lines." Consistent with CA Health & Safety Code	
			125300(b).	
(d)	Conscientious objection	NAG	"Clinical personnel who have a conscientious objection to hES cell research should not be required to participate in providing donor information or	NA Guidelines 3.7
S 100050	Issue	Source	securing donor consent for research use of gametes or blastocysts." Comment	Reference
(a-h)	Compliance	NIH	These provisions are modeled after NIH policy and contained in CIRM Grants	NIH Policy 12 03
(a-11)	Compliance	INIII	Administration Policy.	Interim GAP p. 36
S 100060	Issue	Source	Comment	Reference
(a)	SCRO membership	NAG	"The committee should include representatives of the public and persons with expertise in developmental biology, stem cell research, molecular biology, assisted reproduction, and ethical and legal issues in hES cell research."	<u>NA Guidelines 2.0</u> <u>SWG_05/03/06_#4</u>
			Provisions regarding non-scientist member, permissible expenses, and financial interest added in response to comments.	<u>WC030 #3</u> <u>WC022</u>
(b)	SCRO function	NAG	"It must have suitable scientific, medical, and ethical expertise to conduct its own review and should have the resources needed to coordinate the management of the various other reviews required for a particular protocol."	NA Guidelines 2.0
(c)	SCRO investigator education	NAG	The ESCRO should facilitate education of investigators involved in hES [stem] cell research.	NA Guidelines 2.0(5)
(d)	SCRO for two or more institutions	SWG	Commentators indicated it may be difficult for all institution to have the necessary expertise or it may not be economical for small institutions or programs to establish independent committees.	Public Session 03 12/14/05 Workshop SWG 10/24/06 Transcript P105.L7
(e)	SCRO may be convened by group of institutions or state agency	SWG	Based on rationale in 100005(d); and the desire to explicitly enable multiple options for research oversight.	SWG 10/24/05 Transcript P90.L23
S 100070	Issue	Source	Comment	Reference
(a)	Procurement & use of oocytes	NAG/ SWG	Procurement or use of oocytes is an ethically sensitive issue requiring review. SWG is charged with recommending "safe and ethical procedures for obtaining materials and cells for research."	<u>NA Guidelines 3.0</u> <u>CA_H&S_12590.55</u> (b)(2)

Document 4: Summary – Original Basis for CIRM MES Regulations

				SWG_05/03/06_#3
(a)(1)	Acceptable scientific rationale	NAG/ SWG	Procurement of oocytes involves risk to donors; an acceptable scientific rational should be provided for such research.	NA Guidelines 4.4
(a)(2)	Demonstrate expertise	NAG	"Research teams should demonstrate appropriate expertise or training in derivation or culture of either human or nonhuman ES [stem] cells"	NA Guidelines 4.3
(a)(3)	Document compliance with necessary review	NAG	"An IRB, as described in federal regulations at 45 CFR 46.107, should review the procurement of all gametes, blastocysts, or somatic cells for the purpose of generating new hES cell lines"	NA Guidelines 1.2 NA Guidelines 3.1
(b)	Use of human embryos	NAG/ SWG	Use of embryos is an ethically sensitive issue requiring review.	<u>CA_H&S_12590.55</u> (b)(2)
(b)(1)	SCRO approval for CIRM-funded derivation	NAG	Embryo research is ethically sensitive; an acceptable scientific rational should be provided for such research.	NA Guidelines 4.2 & 4.4
(b)(2)	Demonstrate expertise	NAG	"Research teams should demonstrate appropriate expertise or training in derivation or culture of either human or nonhuman ES [stem] cells"	NA Guidelines 4.3
(b)(3)	Document compliance with necessary review	NAG	"An IRB, as described in federal regulations at 45 CFR 46.107, should review the procurement of all gametes, blastocysts, or somatic cells for the purpose of generating new hES cell lines"	NA Guidelines 1.2 NA Guidelines 3.1
(c)	Derive covered stem cell line	NAG/ SWG	Scientific rationale for generating new ES [stem] cell lines, is required.	NA Guidelines 4.0
(c)(1)	Acceptable scientific rationale	NAG/ SWG	The scientific rationale for the need to generate new ES [stem] cell lines, by whatever means, must be clearly presented.	NA Guidelines 4.0
(c)(2)	Justify SCNT	NAG/ SWG	SCNT requires oocytes so use should be justified.	NA Guidelines 4.2
(c)(3)	Demonstrate expertise	NAG	"Research teams should demonstrate appropriate expertise or training in derivation or culture of either human or nonhuman ES [stem] cells"	NA Guidelines 4.3
(c)(4)	Document compliance with necessary review	NAG	"An IRB, as described in federal regulations at 45 CFR 46.107, should review the procurement of all gametes, blastocysts, or somatic cells for the purpose of generating new hES cell lines"	NA Guidelines 1.2 NA Guidelines 3.1
(c)(5)	Document how cell lines will be characterized	NAG	"Investigators must document how they will characterize, validate, store, and distribute any new hES cell lines."	NA Guidelines 4.6
(d)	Notify in vitro	NAG	Purely in vitro hES cell research is permissible after notification of the	NA Guidelines 1.2(a)

Document 4: Summary – Original Basis for CIRM MES Regulations

	research		research institution's ESCRO committee and completion of the reviews	
(1)(1)	0.11.12	NAG	mandated by current requirements.	NA Guidelines 3.1-3.4(b)
(d)(1)	Cell lines are acceptably derived	NAG	Requirement is applicable to all cell lines used by researchers. To be considered "acceptably derived" cells must conform to requirements 100080.	NA Guidennes 5.1-5.4(b)
(d)(2)	Document compliance with necessary review	NAG	Consistent with 100070(b)(3).	NA Guidelines 1.2(a)
(e)	Introduction of stem cells to animals	NAG	Research involving the introduction of hES cells into nonhuman animals at any stage of embryonic, fetal, or postnatal development.	<u>NA Guidelines 1.2(b)(2)</u> <u>SWG 01/30/06</u> Transcript P61.L6
			Introduction of neural-progenitor cells to the brain identified as category of research that merits special review.	<u>SWG 05/03/06 P103.</u> <u>L10</u>
(e)(1)	Acceptable scientific rationale	NAG	All protocols involving the combination of hES cells with nonhuman embryos, fetuses, or adult animals must be submitted to the local IACUC for review of animal welfare issues and to the ESCRO committee for consideration of the consequences of the human contributions to the resulting chimeras.	NA Guidelines 6.4-6.5
(e)(2)	Cell lines are acceptably derived	NAG	Requirement is applicable to all cell lines used by researchers.	NA Guidelines 3.1-3.4(b)
(e)(3)	Evaluate probable pattern of differentiation	NAG/ SWG	"particular attention should be paid to the probable pattern and effects of differentiation and integration of the human cells into the nonhuman animal tissues."	NA Guidelines 1.2(b)(2) NA Guidelines 6.4-6.5
(e)(4)	Document compliance with necessary review	NAG	Consistent with 100070(b)(3).	NA Guidelines 1.2 NA Guidelines 3.1
(f)	Introduction of stem cells to humans	SWG	SWG extended NAS recommendations reflected in section 100070(e) to humans. Such research requires IRB review, the SCRO committee review with expertise in stem cell research can inform IRB deliberations. Consistent with NAS recommendation that the SCRO committee provide oversight for all issues related to derivation and <i>use</i> of stem cell lines.	
(f)(1)	Acceptable scientific rationale	SWG	The NAS recommends that the SCRO committee provide an additional level of review and scrutiny warranted by the complex issues raised by hES cell research.	NA Guidelines 2.0
(f)(2)	Cell lines are	SWG	Requirement is applicable to all cell lines used by researchers.	NA Guidelines 3.1-3.4(b)

Document 4: Summary – Original Basis for CIRM MES Regulations

	acceptably derived		<u>KM MES Kegulallons</u>	
(f)(3)	Evaluate probable pattern of differentiation	SWG	Consistent with protection of human subjects / Common Rule	45CFR Part 46
(f)(4)	Document compliance with necessary review	SWG	Constitutes human subjects research must comply with Common Rule	45CFR Part 46
(g)	Appeals of SCRO decision	SWG	Comments indicated a specific need for appeals authority.	<u>WC_030_#7</u>
(h)	SCRO Renewal		Comments indicated a specific need for renewal language.	<u>WC 030 #4</u> WC 034 B 2
S 100080	Issue	Source	Comment	Reference
(a)(b)(c)	NIH approved lines	SWG	The NIH, HFEA, and UK stem cell lines view as equivalent. HFEA Code of Practice consistent with requirements of 100080(e).	SWG 8/30/05 Transcript P102.L22 HFEA_Decision_Tree UK_Policy
(d)	CIHR licensed lines	SWG	CIHR license requirements meet standard discussed by SWG.	CIHR Guidelines
(e)(1)	Voluntary & informed consent	HHS & NAG	Fundamental protection under Federal law & major recommendation of NA.	45CFR Part 46 NA Guidelines 3.1
(e)(2)	Donors did not receive valuable consideration	P71 & NAG	The ICOC shall establish "standards prohibiting compensation to research donors or participants, while permitting reimbursement of expenses." Reimbursement standard developed by SWG on 12/30/06.	<u>CA_H&S_Code_1252</u> 90.35(b)(3) <u>SWG 01/30/06</u> <u>Transcript</u> P205.L24&P220.L9
(e)(3)	Persons did not receive valuable considerations	P71, ICOC	Provision intended to make prohibition on compensation consistent with 100080(e)(2). H&S Code 125290.35(b)(5): "Standards limiting payments for the purchase of stem cells or stem cell lines to reasonable payment for the removal, processing, disposal, preservation, quality control, storage, transplantation, or implantation or legal transaction or other administrative costs associated with these medical procedures and specifically including any required payments for medical or scientific technologies, products, or processes for royalties, patent, or licensing fees or other costs for intellectual property."	CA H&S Code 1252 90.35(b)(5) ICOC 2 10 06 #3 CA H&S Code 1252 90.35(b)(3) & (5) CA H&S Code 1253 20 (b)

Document 4: Summary – Original Basis for CIRM MES Regulations

(e)(4)	Donation	HHS,	IRB responsible for ensuring fundamental protection under Federal law &	45CFR Part 46 NA Guidelines 3.1
	overseen by IRB	NAG	major recommendation of NA. Consistent with existing state regulation where	CA H&S Code 125300
/ \ / - \		& CA	IRB oversees aspects of donation of gametes, embryos and tissue.	
(e)(5)	No compensation	NAG	"People who elect to donate stored blastocysts for research should not be	NA Guidelines 3.4(a)
	for storage costs		reimbursed for the costs of storage prior to the decision to donate."	
S 100090	Issue	Source	Comment	Reference
	Additional	P71/S	Additional requirements adapted for CIRM-funded derivation consistent with	<u>CA H&S Code 1252</u>
	requirements for CIRM derivation	WG	CA H&S code 125290.35(b)(1):	<u>90.35_(b)(1)</u>
	CIRM derivation		(b) The ICOC shall establish standards as follows:	
			(1) Informed Consent	
			Standards for obtaining the informed consent of research donors, patients, or	
			participants, which initially shall be generally based on the standards in place	
			on January 1, 2003, for all research funded by the National Institutes of Health,	
			with modifications to adapt to the mission and objectives of the institute.	
S 100095	Issue	Source	Comment	Reference
(a)	SART certified	SWG	SART certification intended to ensure standard of care for oocyte donors.	SWG 05/03/06 #16
(b)	Shall not	SWG	Provision intended to provide additional protections to prospective donors.	SWG Briefing Memo
(-)	knowingly	~	Sections (b)(1) and (b)(2) describe consent process for donating materials for	7_19_06
	compromise		research that are not otherwise needed for reproductive success (e.g. failed to	
	optimal		fertilize oocytes/embryos).	SWG_07/19/06
	reproductive			
	success			
(c)	Medical care	SWG	Provision intended to provide economic protections to prospective donors.	<u>SWG 01/30/06</u>
	provided at no			Transcript P218.L9
	cost to donor			<u>SWG 05/03/06 #8</u>
(d)	Physician and PI	NAG	"Whenever it is practicable, the attending physician responsible for the	NA Guidelines 3.5
	not the same		infertility treatment and the investigator deriving or proposing to use hES cells	
	individual		should not be the same person."	
(e)	Physician not	SWG	Provision intended to protect prospective donors from undue influence.	<u>SWG 01/31/06</u>
	have financial			<u>Transcript P325.L12</u> & <u>SWG 01/31/06</u>
	interest in			& <u>SwG 01/31/06</u> Transcript P347.L11
	research outcome	Source	Comment	Reference
S 100100	Issue			

Document 4: Summary – Original Basis for CIRM MES Regulations

(a)	Informed consent requirements	NAG, SWG	The informed consent requirements are consistent with the NAG and existing CA regulations.	NA Guidelines 3.2 CA H&S Code 125315
		& CA		Working Notes 3
(b)	Do not violate the preferences of donors	NAG & SWG	Provision developed to be consistent with an aspirational goal of the NAG. "Donors <u>could</u> be offered the option of agreeing to some forms of hES cell research but not othersThe consent process should fully explore whether donors have objections to any specific forms of research to ensure that their wishes are honored."	<u>NA Guidelines 3.6</u> <u>SWG 12/01/05</u> <u>Transcript P90.L4</u>
(b)(1)	Cells may be kept for many years	NAG & CA	NAG: "A statement that derived hES cells and/or cell lines might be kept for many years." [3.6(f)] Same standard applies in existing CA regulations.	<u>NA Guidelines 3.6(f)</u> <u>CA H&S Code 125315</u> (c)(4)
(b)(2)	Recontact of donors	NAG	NAG: "If the identities of the donors are retained (even if coded), a statement as to whether donors wish to be contacted in the future to receive information obtained through studies of the cell lines." [3.6(d)]	NA Guidelines 3.6(d) SWG 12/01/05 Transcript P59.L23
(b)(3)	Cells used in future studies	SWG	SWG indicated the need to emphasize all future uses could not be anticipated at time of donation.	<u>SWG 12/01/05</u> <u>Transcript P83.L9</u>
(b)(4)	May be used in research involving genetic manipulation	NAG	NAG: "A statement that the hES cells and/or cell lines might be used in research involving genetic manipulation of the cells or the mixing of human and nonhuman cells in animal models." [3.6(g)]	NA Guidelines 3.6(g) SWG 12/01/05 Transcript P87.L18 Working_Notes_8
(b)(5)	May be transplanted into humans or animals	NAG	NAG: "A statement that the hES cells and/or cell lines might be used in research involving genetic manipulation of the cells or the mixing of human and nonhuman cells in animal models." [3.6(g)]	<u>NA Guidelines 3.6(g)</u> <u>Working_Notes_8</u>
(b)(6)	No direct medical benefit except autologous	NAG & CA	NAG: "A statement that the research is not intended to provide direct medical benefit to the donor(s) except in the case of autologous donation." [3.6(i)]	<u>NA Guidelines 3.6(i)</u> <u>CA_H&S_Code_125315</u> (c)(6)
(b)(7)	Donation without any restriction on recipient	NAG	NAG: "A statement that the donation is made without any restriction or direction regarding who may be the recipient of transplants of the cells derived, except in the case of autologous donation." [3.6(b)]	NA Guidelines 3.6(b)
(b)(8)	Consenting or refusing will not affect quality of care	NAG	NAG: "A statement that neither consenting nor refusing to donate embryos for research will affect the quality of any future care provided to potential donors." [3.6(k)]	NA Guidelines 3.6(k)
(b)(9)	Cells may have	NAG	NAG: "Disclosure of the possibility that the results of study of the hES cells	NA Guidelines 3.6(h)

Document 4: Summary – Original Basis for CIRM MES Regulations

Document 4:	<u>Summary – Original E</u>	sasis for CI		
	commercial	& CA	may have commercial potential and a statement that the donor will not receive	<u>CA H&S Code 125315</u>
	potential		financial or any other benefits from any future commercial development."	<u>(c)(5)</u>
(c)	Opportunity to document preferences	NAG & SWG	Consistent with NA principle "The consent process should fully explore whether donors have objections to any specific forms of research to ensure that their wishes are honored."	<u>NA Guidelines 3.6</u> <u>SWG 01/30/06</u> <u>Transcript P269.L22</u>
(d)	Additional requirements for donation of oocytes	SWG	SWG identified oocyte donor issues as "complex" and "controversial" requiring special standards.	SWG 12/01/05 Transcript P92.L15
(1)	Description of foreseeable risks	HHS, SWG & CA	Description of risks fundamental to all informed consent; SWG identified specific risks associated with egg donation.	<u>45CFR Part 46</u> <u>SWG 01/30/06</u> <u>Transcript P257.L17</u>
(2)	Physician must disclose relationship to researcher	SWG & CA	Consistent with existing regulations that require that "material financial stake or interest, if any, that the investigator or research institution has in the outcome of the medical experiment" to be disclosed.	<u>CA H&S Code 24173</u> (c) (11)
(3)	Informed of option to deliberate	SWG	Requirement intended to remind donors of existing rights. Revised from original requirement based on public comments.	<u>SWG 12/01/05</u> <u>Transcript P93.L7</u> <u>SWG_05_03_06_Tran</u> <u>script P45.</u> WC 029
(4)	Ascertain donor understands essential aspects of research	SWG	SWG agreed in principal to assessment at 12/1/05 meeting. Language revised in response to comments.	SWG 12/01/05 Transcript P118.L11 WC_017
(4)(A-H)	Essential aspects	SWG	SWG identified critical elements from 100009(a)(1-9) that are essential for oocyte donors understand.	
(d)	Statement that embryos will be destroyed	NAG	NAG: "A statement that embryos will be destroyed in the process of deriving hES cells." [3.6(j)]	NA Guidelines 3.6(j)
(e)	Consent from legal parent guardian or	SWG	NAG did not address cord blood and placenta.	<u>SWG 01/30/06</u> <u>Transcript P260.L10</u>

Document 4: Summary – Original Basis for CIRM MES Regulations

AGENDA ITEM # 8 C ii 8/2/06 ICOC Meeting

	progenitor.			
(f)(g)	Cord blood	SWG	ICOC requested that current regulations confirm to existing law and practice where birth mother consents to donation.	<u>ICOC 06/02/2006 Tra</u> <u>nscript_P_101</u>
(h)	For SCNT disclose whether cell available for autologous treatment	SWG	Based on NAG requirement that availability of SCNT cell lines for autologuos treatment be addressed.	NA Guidelines 3.6(i)
S 100110	Issue	Source	Comment	Reference
	CA Health	CA &	SWG identified fairness and inclusion in research as a priority. Provision	<u>SWG 08/30/05</u>
	Research	SWG	adopts existing CA policy by reference. Policy mirrors 1993 NIH guidelines.	Transcript P22.L15
	Fairness Act &			GA 110 G A 100007
	Inclusion of			<u>CA H&S Code 100237</u>
	Women and			
	Minorities			
S 100120	Issue	Source	Comment	Reference
	Record keeping	NAG	This section contains general record keeping requirements. Such requirements	NA Guidelines 6.1
		&	are also contained in the Grants Administration Policy pursuant to CIRM's	
		CIRM	general obligations to track use of funds.	
S 100130	Issue	Source	Comment	Reference
	Materials Sharing	ICOC	This section reiterates a core principle of the proposed intellectual property	<u>SWG 01/30/06</u>
		IP	policy. See: http://www.cirm.ca.gov/policies/pdf/IPPNPO.pdf	Transcript P24.L10
		Policy		

Document 4: Summary – Original Basis for CIRM MES Regulations