

# RUBÉN QUINTANA CABRERA

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Universidad de Salamanca





# HOLA!

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Juan de la Cierva-Incorporación  
(2017)

# CÓMO HACERLO

○  
**LA IDEA**  
(Qué, dónde,  
cómo)

○  
**CONTACTOS**  
(Partners, OPI,  
NCP, Mentor)

○  
**ESCRIBIR**  
(Modelos, guías,  
seminarios)





# LA IDEA

Lo primero en lo que tienes que pensar, y dónde y con quién

# COLABORACIONES

# COLABORACIONES

A hand holding a pen is pointing to a map of Europe. The map is partially obscured by a dark, jagged silhouette of the continent. Three callout boxes are present: one for an academic partner in Cambridge, UK; one for a non-academic partner in Nijmegen, NL; and one for a partner in Spain (Nosotros, SP).

**ACADEMIC  
PARTNER**  
(Cambridge, UK)

**NON-ACADEMIC  
PARTNER**  
(Nijmegen, NL)

**USAL**  
(Nosotros,  
SP)





Proposal ID 793

MITIG

Abstract

Qué supone para la UE

De qué va el programa

Objetivos claros

Valores de la UE con que cumple

Qué aportará

Glioblastoma is the most frequent and aggressive type of primary brain tumours in adults. Despite significant advances in current treatments involving resection and radiation/chemotherapy only partially mitigate the dire prognosis for GBM, hence avidly seeking for novel therapeutic approaches. There is still no virtual cure and a high socio-economic impact in the EU. A common feature in GBM, as in many other cancers, is their escape from metabolic regulation exerted by mitochondria, the bioenergetic central of the cell. Modulating mitochondrial metabolism represents a primary target to rewire metabolism and overcome the metabolic adaptation. MITIG capitalizes on the recent reported alterations in mitochondrial metabolism in surrounding neural cells in the brain, and aims at providing novel therapeutic targets and overcoming long lasting questions on respiratory metabolism in GBM. In vivo MITIG will target both paths for mitochondrial metabolism in GBM: mitochondrial biogenesis and mitochondrial respiration. Incorporation of exogenous mitochondria impacts respiratory metabolism in GBM. Rewiring for tumour development in vivo. Departing from mitochondrial acquisition as a novel tool to redefine respiration and metabolism in cancer, MITIG will develop a comprehensive training program fostering MSCA and EU values on research, dissemination and public engagement. An international network of experts will support the training in the intersectorial, multidisciplinary facets of MITIG. In sum, while paving the way for a promising novel biomedical field, MITIG aims at providing novel therapeutic targets and overcoming long lasting questions on respiratory metabolism in GBM and cancer as a whole.

Remaining characters

191

# 1. Excelencia

## 1.1 Calidad y credibilidad

### 1.1.1. Introducción

Qué estudia y por qué es relevante

A qué aspectos de MSCA contribuye (paridad, network, multidisciplinariedad...)

Programas: *Youth on the move*, *Responsible Research and Innovation*..

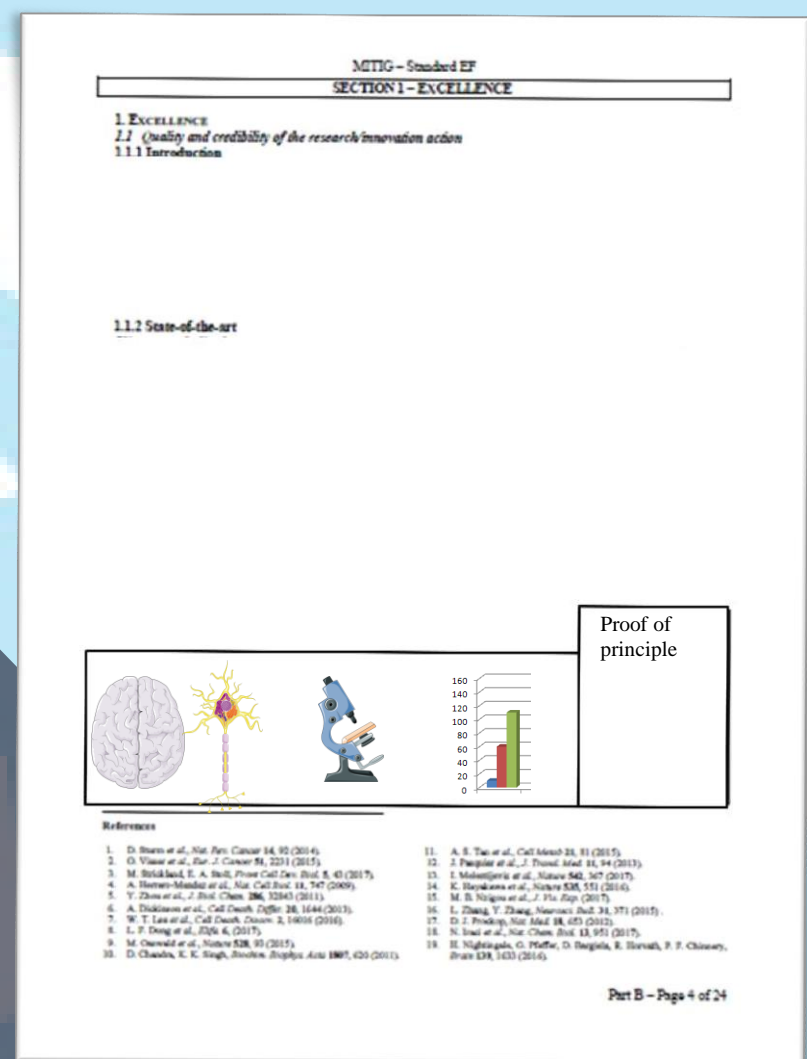
### 1.1.2. Estado del área/técnica

Descripción (científica) de qué es nuevo en el campo de investigación

Esquema y prueba de concepto (opcional)

## Referencias

Poco espacio, reducir tamaño de letra





### 1.1.3 Objetivos específicos

Qué formación adquiriré

Qué aporta a la ciencia

Subobjetivos científicos desgranados

### 1.1.4. Resumen del programa

Personal (Supervisor y colaboradores) e Institución (USAL) implicados, por qué son relevantes y qué aportarán (brevemente)

### 1.1.5. Metodología de investigación y enfoque

Cuántos paquetes de trabajo lo componen

Métodos y técnicas que se emplearán

#### 1.1.3 Specific objectives:

The fundamental objective of the MITIG project is:

- 1.
- 2.
- 3.
- 4.
- 5.

#### 1.1.4 Overview of the action

#### 1.1.5 Research methodology and approach

The project is composed of nine work packages (WPs) (see [Section 3.1](#)), each of which is established with individual goals or milestones (M)

WP2: Training in

*Method:*

WP3: Training in

*Method:*

## 1.1.6 Originalidad y aspectos innovativos

Qué es lo nuevo de los descubrimientos esperados y de las técnicas usadas

## 1.1.7. Aspectos de género

¿La investigación tiene impacto de género?

Utilización de animales de ambos sexos

Colaboraciones paritarias

## 1.1.8. Interdisciplinariedad

Áreas involucradas. Aplicación extensible a otros campos.

## 1.1.9. Oportunidades de carrera y colaboración

Qué aportas viniendo aquí y qué te aportarán para colaborar y desarrollar tu carrera

WP4: Training in

Methods:

WP5: Training in  
Academy) Methods:

(Secondment:

WP6: Training in

Methods:

1.1.6 Originality and innovative aspects of the research programme

1.1.7 Gender aspects

1.1.8 Interdisciplinarity

1.1.9 Career possibilities and collaboration opportunities

## 1.2. Calidad y adecuación de la formación y transferencia bidireccional

HOST : Formación en:

- Investigación
- Gestión y organización
- Interdisciplinariedad e intersectorialidad
- Formación complementaria (comunicación, diseminación, docencia, etc.)

INVESTIGADOR : Metodos a implementar, experiencia...

## 1.3. Calidad de la supervisión

### 1.3.1. Cualificaciones y experiencia del supervisor

Experiencia científica, financiación, experiencia en programas europeos y en formación...

### *1.2 Quality and appropriateness of the training and of the two way transfer of knowledge*

MITIG comprises a reciprocal expertise (two-way) transfer. From the Host's side, the group of Prof.

From the ER's side, his scientific background on mitophagy, mitochondrial function, ultrastructure and

### *1.3 Quality of the supervision and of the integration in the transinstitution*

#### *1.3.1 Qualifications and experience of the Supervisor*

Prof.

## 1.3.2 Equipamiento del Host

Características del laboratorio

USAL : Ambiente de trabajo (otros MSCA en el grupo), experiencia, *Campus de excelencia internacional...*

## 1.4. Capacidad para madurar científicamente/independizarse

Por qué el investigador tiene madurez suficiente para el proyecto: colaboraciones propias, dirección de trabajos, autofinanciación...

Habilidades que adquirirá el ER para conseguir afianzarse en una posición futura, solicitar financiación futura, etc.

### 1.3.2 Hosting arrangements:

### 1.4 Capacity of the researcher to reach or re-enforce a position of professional maturity/independence



# EXCELLENCE

## STRENGTHS

- *The presented state-of-the-art, supported by well **selected and novel references**, gives a good introduction to the topic of the proposal, and introduced proof-of-concept increases the credibility of proposed research.*
- *The **interdisciplinarity** of the project is sufficiently indicated. The applicant, to achieve the indicated objectives plans to use a multiple set of techniques combining mitochondrial biology with neural bioenergetics and metabolomics.*
- *The applicant **discusses in detail all necessary aspects** of the presented proposal including gender issue, as well as collaboration*

# EXCELLENCE

## STRENGTHS

- The described **transfer of knowledge** is presented in sufficient details.. gaining an experience of the applicant in experimental techniques (...), as well as in transferable skills. The **host laboratory would benefit** from the experience of the researcher

- Both, the **Supervisor and the Secondment** program, represent complementary expertise in light the topic of the project.

- The **supervisor** is an experienced scientist, who contributes with important advances to the field ...is experienced in the mentoring of scientists, gaining/managing international project, achieving patents.

# EXCELLENCE

## STRENGTHS

- The ***description of Secondments*** is sufficiently presented, well supported with the publication record and adequate, technical facility.
- The ***hosting arrangements*** are appropriate with promising wide networking opportunity.
- Considering the young age and research experience, the applicant demonstrates ***signs of maturity and involvement in career building***,
- Providing evidence of ***involvement in different projects***, ability learn and manage new techniques.
- The ***scientific track record of the researcher is appropriate to the level career...***
- The researcher shows clear ***leadership abilities and independent thinking*** skills as shown by supervision and teaching activities, grant writing, organization of conferences, academic and journal reviewing.

## 2. Impacto

Qué supondrá para el avance del campo y por qué es interesante para la UE y la sociedad.

### 2.1. Mejora de las perspectivas futuras de carrera

A nivel científico/técnico

A nivel de gestión/emprendimiento

Existencia de programas para incorporación estable (Ramón y Cajal, Usal...)

### 2.2. Calidad de la difusión de resultados

#### 2.2.1. Diseminación de resultados

Publicaciones, seminarios, congresos, medios de comunicación...

## 2. IMPACT

### 2.1 *Enhancing the potential and future career prospects of the researcher*

• At scientific/technical level

• At management/entrepreneurship level

### 2.2 *Quality of the proposed measures to exploit and disseminate the action results*

#### 2.2.1 *Dissemination of results*



## 2.2.2. Explotación de los resultados y propiedad intelectual

Nuevas patentes, técnicas, etc. gestionados con ayuda de OTRI, TCUE para transferencia, principios de propiedad intelectual, etc.

## 2.3. Calidad de la comunicación a diferentes audiencias

Medios publicos, páginas web, redes sociales, charlas públicas, seminarios...

## 3. IMPLEMENTACIÓN

Calidad y eficiencia de la implementación

*2.3. Quality of the proposed measures to communicate the action activities to different target audiences*

### SECTION 3 - IMPLEMENTATION

#### 3. QUALITY AND EFFICIENCY OF THE IMPLEMENTATION

##### 3.1 Coherence and effectiveness of the work plan

# IMPACT

## STRENGTHS

- *The project gives a multiple support of the researcher to **enhance the potential and future career perspectives** starting from increasing the experimental/ technical skills through developing the management abilities.*
- *The **impact of the project on the fellow's career** is described in a convincing way.*
- *The applicant's **long-term aims in research** are clearly presented.*
- *The proposal addresses the **dissemination strategy** at the appropriate level of detail through publication, workshops, and media releases.*
- *The **exploitation of results and intellectual property** rights is convincingly covered.*
- *The **arrangements to communicate** the action activities to different target audiences are planned ...*

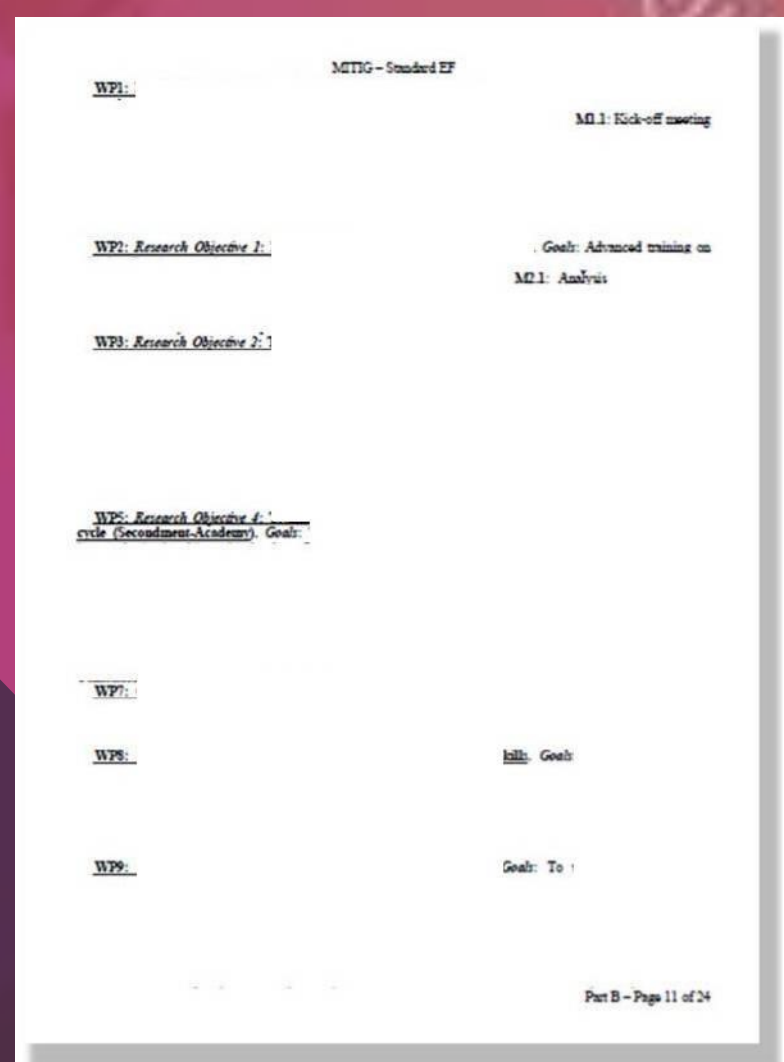


“

## IMPACT WEAKNESSES:

- *The measures planned for **outreach communication are very broad** in their population aims, nevertheless cancer patients are not targeted in a very specific way.*

Detallar workplans (WP), Goals, Milestones (M), secondments... tanto en parte científica como en diseminacion, comunicacion y actividades complementarias





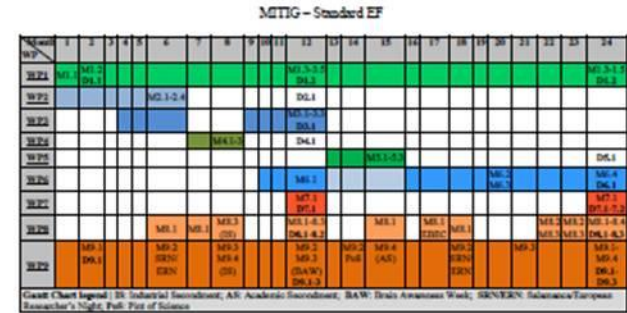
Gantt Chart. Distribucion de WP, M y Deliverables (D).

### 3.2. Conveniencia de la asignacion de tareas y recursos

WP y person-months (PM), que son los meses destinados a cada WP. En total, sumarán la totalidad de meses de la acción MSCA. Citar a las personas que contribuirán a la acción y, brevemente, como (supervisor, supervisor de la estancia, otros postdocs en el laboratorio, OPI, AGI...)

### 3.3. Conveniencia de las estructuras y procedimientos, con plan de riesgos

Necesidades técnicas, gestión financiera y administrativa (AGI, OPI), seguimiento por supervisor y USAL, plan de contingencia, diseminación....



3.2. Appropriateness of the allocation of tasks and resources

3.3. Appropriateness of the management structure and procedures, including risk management

### 3.3.2. Riesgos y plan de contingencia

Riego alto/bajo, ayuda especializada para asegurar el éxito, tests preliminares (si hay), cuadro con posibles riesgos (con porcentaje de probabilidad) y formas de minimizarlos

### 3.4. Adecuación del ambiente institucional

USAL  
Instituto  
Secondments

#### 3.3.2 Risk: and contingency plan

Risk description (likelihood)	Contingency plan/ mitigation measure

#### 3.4 Appropriateness of the institutional environment (infrastructure)

# IMPLEMENTATION

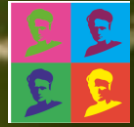
## STRENGTHS

- The **work plan** is described in detail and has a high degree of **coherence**.
- Brief and clear **description** of specific **work packages** increases the feasibility of the project.
- The **allocation of task and resources** is very well presented and adequate for the development of the project.
- All practical aspects of the research programme including **responsibility and management structure**, are sufficiently described.
- **Risks** related to the research part of the project and alternative research directions, are adequately considered and discussed.
- **Appropriateness of the institutional environment** is well documented. The infrastructure and equipment necessary for proper and timely implementation of the project appears to be in place, including the genome-wide sequencing facility and experienced experts for technical support.

# ÁNIMO, SUERTE...

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**...Y A POR ELLA!**







## Index

<b>PART B1</b>	3
<b>LIST OF PARTICIPATING ORGANIZATIONS</b>	3
<b>SECTION 1 – EXCELLENCE</b>	4
1. EXCELLENCE	4
1.1 QUALITY AND CREDIBILITY OF THE RESEARCH/INNOVATION ACTION	4
1.1.1 Introduction	5
1.1.2 State-of-the-art	5
1.1.3 Specific objectives	5
1.1.4 Overview of the action	6
1.1.5 Research methodology and approach	6
1.1.6 Originality and innovative aspects of the research programme	6
1.1.7 Gender aspects	6
1.1.8 Interdisciplinarity	6
1.1.9 Career possibilities and collaboration opportunities	7
1.2 QUALITY AND APPROPRIATENESS OF THE TRAINING AND OF THE TWO WAY TRANSFER OF KNOWLEDGE	7
1.3 QUALITY OF THE SUPERVISION AND OF THE INTEGRATION IN THE TEAM/INSTITUTION	7
1.3.1 Qualifications and experience of the supervisor	7
1.3.2 Hosting arrangements	8
1.4 CAPACITY OF THE RESEARCHER TO REACH OR RE-ENFORCE A POSITION OF PROFESSIONAL MATURITY/ INDEPENDENCE	8
<b>SECTION 2 – IMPACT</b>	9
2. IMPACT	9
2.1 ENHANCING THE POTENTIAL AND FUTURE CAREER PROSPECTS OF THE RESEARCHER	9
2.2 QUALITY OF THE PROPOSED MEASURES TO EXPLOIT AND DISSEMINATE THE ACTION RESULTS	9
2.2.1 Dissemination of results	10
2.2.2 Exploitation of results and intellectual property	10
2.3 QUALITY OF THE PROPOSED MEASURES TO COMMUNICATE THE ACTION ACTIVITIES TO DIFFERENT TARGET AUDIENCES	10
<b>SECTION 3 – IMPLEMENTATION</b>	10
3. QUALITY AND EFFICIENCY OF THE IMPLEMENTATION	10
3.1 COHERENCE AND EFFECTIVENESS OF THE WORK PLAN	12
3.2 APPROPRIATENESS OF THE ALLOCATION OF TASKS AND RESOURCES	12
3.3 APPROPRIATENESS OF THE MANAGEMENT STRUCTURE AND PROCEDURES, INCLUDING RISK MANAGEMENT	12
3.3.1 Project organisation, monitoring, and management structure	13
3.3.2 Risks and contingency plan	13
3.4 APPROPRIATENESS OF THE INSTITUTIONAL ENVIRONMENT (INFRASTRUCTURE)	14
<b>PART B2</b>	14
<b>SECTION 4 – CV OF THE EXPERIENCED RESEARCHER</b>	14
<b>SECTION 5 – CAPACITY OF THE PARTICIPATING ORGANISATIONS</b>	19
BENEFICIARY	19
PARTNER ORGANISATION (ACADEMIC SECONDMENT)	20
PARTNER ORGANIZATION (INDUSTRIAL SECONDMENT)	21
<b>SECTION 6 – ETHICAL ISSUES</b>	22
<b>ETHICS SELF-ASSESSMENT</b>	22
1. LEGAL AND ETHIC REQUIREMENTS	22
2. MANAGEMENT OF ETHICAL ISSUES	23
2.1 Objective	23
2.2 Methodology	24
2.3 Impact	24
2.4 Health and safety procedures	24
2.5 Environmental risks	24

## Index

<b>PART B1</b> .....	3
<b>LIST OF PARTICIPATING ORGANIZATIONS</b> .....	3
<b>SECTION 1 – EXCELLENCE</b> .....	4
1. EXCELLENCE.....	4
1.1 QUALITY AND CREDIBILITY OF THE RESEARCH/INNOVATION ACTION.....	4
1.1.1 Introduction.....	4
1.1.2 State-of-the-art.....	4
1.1.3 Specific objectives.....	5
1.1.4 Overview of the action.....	5
1.1.5 Research methodology and approach.....	5
1.1.6 Originality and innovative aspects of the research programme.....	6
1.1.7 Gender aspects.....	6
1.1.8 Interdisciplinarity.....	6
1.1.9 Career possibilities and collaboration opportunities.....	6
1.2 QUALITY AND APPROPRIATENESS OF THE TRAINING AND OF THE TWO WAY TRANSFER OF KNOWLEDGE.....	7
1.3 QUALITY OF THE SUPERVISION AND OF THE INTEGRATION IN THE TEAM/INSTITUTION.....	7
1.3.1 Qualifications and experience of the supervisor.....	7
1.3.2 Hosting arrangements.....	8
1.4 CAPACITY OF THE RESEARCHER TO REACH OR RE-ENFORCE A POSITION OF PROFESSIONAL MATURITY/ INDEPENDENCE.....	8
<b>SECTION 2 – IMPACT</b> .....	9
2. IMPACT.....	9
2.1 ENHANCING THE POTENTIAL AND FUTURE CAREER PROSPECTS OF THE RESEARCHER.....	9
2.2 QUALITY OF THE PROPOSED MEASURES TO EXPLOIT AND DISSEMINATE THE ACTION RESULTS.....	9
2.2.1 Dissemination of results.....	9
2.2.2 Exploitation of results and intellectual property.....	10
2.3 QUALITY OF THE PROPOSED MEASURES TO COMMUNICATE THE ACTION ACTIVITIES TO DIFFERENT TARGET AUDIENCES.....	10
<b>SECTION 3 – IMPLEMENTATION</b> .....	10
3. QUALITY AND EFFICIENCY OF THE IMPLEMENTATION.....	10
3.1 COHERENCE AND EFFECTIVENESS OF THE WORK PLAN.....	10
3.2 APPROPRIATENESS OF THE ALLOCATION OF TASKS AND RESOURCES.....	12
3.3 APPROPRIATENESS OF THE MANAGEMENT STRUCTURE AND PROCEDURES, INCLUDING RISK MANAGEMENT.....	12
3.3.1 Project organisation, monitoring, and management structure.....	12
3.3.2 Risks and contingency plan.....	13
3.4 APPROPRIATENESS OF THE INSTITUTIONAL ENVIRONMENT (INFRASTRUCTURE).....	13

<b>PART B2</b> .....	14
<i>SECTION 4 - CV OF THE EXPERIENCED RESEARCHER</i> .....	14
<i>SECTION 5 - CAPACITY OF THE PARTICIPATING ORGANISATIONS</i> .....	19
BENEFICIARY.....	19
PARTNER ORGANISATION (ACADEMIC SECONDMENT).....	20
PARTNER ORGANIZATION (INDUSTRIAL SECONDMENT).....	21
<i>SECTION 6 – ETHICAL ISSUES</i> .....	22
ETHICS SELF-ASSESSMENT.....	22
1. LEGAL AND ETHIC REQUIREMENTS.....	22
2. MANAGEMENT OF ETHICAL ISSUES.....	22
2.1 Objective.....	23
2.2 Methodology.....	23
2.3 Impact.....	24
2.4 Health and safety procedures.....	24
2.5 Environmental risks.....	24







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and many more...