

th INTERNATIONAL  
SYMPOSIUM

ON STEM CELL THERAPY  
& CARDIOVASCULAR  
INNOVATIONS



[www.cardiovascularcelltherapy.com](http://www.cardiovascularcelltherapy.com)

Symposium Director: Francisco Fernández –Avilés

## SCIENTIFIC AGENDA



MADRID. SPAIN, JUNE 7<sup>th</sup> - 8<sup>th</sup> 2012

AULA MAGNA. PABELLÓN DOCENTE. HOSPITAL GENERAL UNIVERSITARIO GREGORIO MARAÑÓN.  
C/ DOCTOR ESQUERDO, 46. 28007 MADRID



# 9<sup>th</sup> INTERNATIONAL SYMPOSIUM ON STEM CELL THERAPY & CARDIOVASCULAR INNOVATIONS



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# THURSDAY, 7<sup>th</sup> June 2012

7:45 - 8:30 **REGISTRATION**

8:30 - 9:00 **WELCOMING**

9:00 - 10:00 **OPENING SPECIAL LECTURES**

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Chairs: John Martin (London, UK)  
Rafael Bañares (Madrid, Spain)

9:00- 9:25 **Cells and tissue engineering. The pathologic limits of cardiac repair**

Doris A. Taylor (Houston, USA)

9:30– 9:55 **Protection Vs regeneration of ischemic myocardium. New concepts and therapeutic targets**

David García-Dorado (Barcelona, Spain)

10:00 - 11:30 **WHAT'S NEW IN STEM CELL THERAPY FOR CARDIAC REPAIR? - I**

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Chairs: Robert Simari (Rochester, USA)  
Douglas W. Losordo (Chicago, USA)

Discussants: Felipe Prosper (Pamplona, Spain)  
Roberto Fernandez-Viña (Buenos Aires, Argentine)  
Ricardo Sanz (Madrid, Spain)  
André Terzic (Rochester, USA)

10:00 - 10:15 **Cells (embryonic, adult, iPS...) Something new?**

Philippe Menasché (Paris, France)

10.15 - 10.30 **Growth factors. Are they alive?**

Bernardo Nadal-Ginard (Liverpool, UK)

10:30 - 10:45 **Biological tricks to improve cell efficacy.**

Stefanie Dimmeler (Frankfurt, Germany)

10.45 - 11.00 **What's new in application of allogenic cells?**

Stefan Janssens (Leuven, Belgium)

11.00 - 10.15 **Biocompatible tissues to prevent remodeling**

Juan Carlos Chachques (Paris, France)

11:15—11:40 **Discussion**

11:40- 12:00 **COFFEE BREAK**

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**12:00 - 13:30 WHAT'S NEW IN STEM CELL THERAPY FOR CARDIAC REPAIR? - II**

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Chairs:	Robert Simari	(Rochester, USA)
	Douglas W. Losordo	(Chicago, USA)
Discussants:	Felipe Prosper	(Pamplona, Spain)
	Roberto Fernandez-Viña	(Buenos Aires, Argentine)
	Ricardo Sanz	(Madrid, Spain)
	André Terzic	(Rochester, USA)

**12:00 – 12:15 Stem cells and cardiovascular devices. More biocompatible?**

*John Martin* (London, UK)

**12:15 – 12:30 New facts and developments in stem cell delivery strategies**

*Steven A. J. Chamuleau* (Utrecht, The Netherlands)

**12:30– 12:45 Clinical trials**

*Timothy Henry* (Minnesota, USA)

**12:45 – 13:00 Non myocardial clinical applications: pulmonary hypertension**

*Analisa Angelini* (Padova, Italy)

**13:00 – 13:30 Discussion****13:30- 14:45 Lunch and Poster Exhibition**

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Chairs and jury:	Philippe Menasche	(Paris, France)
	Felipe Prosper	(Pamplona, Spain)

In this “Poster Exhibition” research teams involved in the topic of the Symposium will have the opportunity of presenting selected parts of their work to the audience.

The Poster Review Committee will select which the best posters of the session are. At the end of the session, the verdict will be communicated. The winners of the Posters Awards will have to present their work (oral presentation) the following day in the morning, in the session named “Best Poster Presentation”, when they will receive their prize.

For more information regarding Poster Exhibition and Poster Awards, please contact us via e-mail at

[posters@cardiovascularcelltherapy.com](mailto:posters@cardiovascularcelltherapy.com)

**14:45 - 16:15 LATE BREAKING CLINICAL TRIALS IN STEM CELL THERAPY**

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Chairs: Joseph Bartunek (Aalst, Belgium)  
James T. Willerson (Houston, USA)

Discussants: Stefan Janssens (Aalst, Belgium)  
David García-Dorado (Barcelona, Spain)  
Alberto San Roman (Valladolid, Spain)  
Nabil Dib (San Diego, USA)  
Douglas W. Losordo (Chicago, USA)

14.45 – 15.00 **Bone marrow mobilization alone or in combination with cell transplantation in STEMI (The TECAM-2 trial).**

*Francisco Fernández-Avilés (Madrid, Spain)*

15.00 – 15.15 **Effect of intracoronary delivery of autologous bone marrow mononuclear cells 2 to 3 weeks following acute myocardial infarction on left ventricular function. The LateTIME Randomized Trial**

*Jay Traverse (Minnesota, USA)*

15.15 – 15.30 **Two year results of a randomized, double-blind, placebo controlled trial (SCAMI) with serial cardiac magnetic resonance imaging**

*Jochen Wöhrle (Ulm, Germany)*

15.30 – 15.45 **Shock-wave facilitated cell therapy in chronic heart failure: 1-year results of the Cellwave trial**

*Andreas Zeiher (Frankfurt, Germany)*

15.45 – 16.00 **Allogenic mesenchymal precursor cells in ischemic and nonischemic heart failure**

*Emerson Perin (Houston, USA)*

16.00– 16.30 **Panel Discussion**

**16:30 - 17:15 DISCOVERIES AND INVENTIONS**

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Chairs: John Martin (London, UK)  
Doris A. Taylor (Houston, USA)

16:30 - 16:45 **Very small embryonic-like (VSEL) cells in cardiac repair**

*Wociej Wojakowski (Katowice, Poland)*

16:45- 17:00 **Designing a biological heart valve**

*Amir Lerman (Rochester, USA)*

17:00-17:15 **New catheter, methods of delivery**

*Nabil Dib (San Diego, USA)*

**17:30- 19:15 EDUCATIONAL WORKSHOPS**

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**17:30 – 19:15 Workshop on Tissue Engineering for Cardiac Repair**

Chairs *Pedro L. Sanchez* (Madrid, Spain)  
*Doris A. Taylor* (Houston, USA)

**17:30 – 19:15 Workshop on cell selection, production and potentiating for cardiac repair**

Chairs *Stefanie Dimmeler* (Frankfurt, Germany)  
*André Terzic* (Rochester, USA)

**17:30 – 19:15 Workshop on clinical trials design and development. The case of the European BAMl study**

Chairs *Anthony Mathur* (London, UK)  
*Andreas Zeiher* (Frankfurt, Germany)



**EDUCATIONAL WORKSHOP 1** (ROOM 1)**Workshop on Tissue Engineering for Cardiac Repair**

Chairs *Pedro L. Sanchez* (*Madrid, Spain*)  
*Doris A. Taylor* (*Houston, USA*)

**Workshop objectives**

- To bring together basic, preclinical and clinical scientifics and biotechnology companies to help build better connections between these communities.
- To understand the principles and concepts of cardiovascular tissue engineering assessing the State-of-the-Art on the use of stem cells, synthetic and biological matrices and bioreactors.
- To demonstrate practical applications of cardiac tissue engineering
- To learn the principles and concepts of animal models to explore cardiac tissue engineering xenotransplantation
- To learn immunogenicity motorization techniques and methods.
- To understand the commercial and exploitation steps to develop a tissue engineering product

(17.30 – 17.40)	Cells, mediators, and factors <i>Luis R. Borlado</i> ( <i>Madrid, Spain</i> )
(17.40 – 17.50)	Synthetic and biological matrices <i>Doris A. Taylor</i> ( <i>Houston, USA</i> )
(17.50 – 18.00)	Bioreactors <i>Joseph F. Consiglio</i> ( <i>Boston, USA</i> )
(18.00 – 18.10)	An example of cardiac tissue engineering: ventricular patches <i>Carolina Soler</i> ( <i>Barcelona, Spain</i> )
(18.10 – 18.20)	An example of cardiac tissue engineering: cardiac valves <i>Robert D. Simari</i> ( <i>Rochester, USA</i> )
(18.20 – 18.30)	Monitoring immunogenicity. Is it worth it? <i>Dominique Charron</i> ( <i>Paris, France</i> )
(18.30 – 18.40)	Commercial development of cardiac tissue engineering products <i>Alberto Pérez</i> ( <i>Madrid, Spain</i> )
(18.40 – 19.15)	Discussion

**EDUCATIONAL WORKSHOP 2**

(ROOM 2)

**Workshop on cell selection, production and potentiation for cardiac repair**

Chairs *Stefanie Dimmeler* (Frankfurt, Germany)  
*André Terzic* (Rochester, USA)

**Workshop objectives**

- To highlight biological principles and best practices for optimization of regenerative solutions
- To underscore innovative strategies in the development of validated regenerative platforms
- To outline regenerative cytotypes for safe and effective cardiovascular applications
- To delineate cardiac repair mechanisms as a roadmap for translation
- To frame regenerative algorithms for clinical adoption

(17.30 – 17.40)	Bone marrow cells: impact of processing <i>Stefanie Dimmeler</i> (Frankfurt, Germany)
(17.40 – 17.50)	Bone marrow cells: microRNA-based enhancement <i>Thomas Thum</i> (Hannover, Germany)
(17.50 – 18.00)	Cardiac stem cells: isolation and differentiation <i>Beatriz G. Galvez</i> (Madrid, Spain)
(18.00 – 18.10)	Cardiac stem cells: regulatory networks <i>Michael Schneider</i> (London, United Kingdom)
(18.10 – 18.20)	Cardiac stem cells: : lessons learned from lineage tracing <i>Shizuka Uchida</i> (Bad Nauheim, Germany)
(18.30– 18.40)	Pluripotent stem cells: predicting cardiogenic outcome <i>Almudena Martínez F.</i> (Rochester, Minnesota)
(18.20 – 18.30)	Innate regeneration: blueprints for translation? <i>Enzo Porello,</i> (Brisbane, Australia)
(18.30 – 18.40)	Paracrine role in cell therapy <i>Massimiliano Gneccchi</i> (Pavia, Italy)
(18.40 – 19.15)	Discussion

**EDUCATIONAL WORKSHOP 3****(ROOM 3)****Workshop on clinical trials design and development. The case of the European BAMl study**

Chairs	<i>Anthony Mathur</i> <i>Andreas Zeiher</i>	<i>(London, UK)</i> <i>(Frankfurt, Germany)</i>
(17.30 – 17.45)	Introduction/background/concept Anthony Mathur	(London, UK)
(17.45 – 18.00)	Designing a standardised protocol Andreas Zeiher	(Frankfurt, Germany)
(18.00 – 18.15)	Regulatory issues Petra Ruck	(Frankfurt, Germany)
(18.15 – 18.30)	Challenges in Recruitment Joseph Bartunek	(Aaslt, Belgium)
(18.30 – 18.45)	Echo core lab Alberto San Román	(Valladolid, Spain)
(18.45 – 19.00)	Project management Jane Ogilvie	(London, UK)
(19.00 – 19.15)	Discussion	



# FRIDAY, 8<sup>th</sup> June 2012

## 9:00 - 9:40 BEST POSTER PRESENTATION

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Chairs: Philippe Menasché (Paris, France)  
Felipe Prosper (Pamplona, Spain)

9:00 - 9:10 Prizes-giving  
9:10 - 9:25 Winner work presentation and discussion  
9:25 - 9:40 Winner work presentation and discussion

## 9:40 - 11:10 RECENT CONTRIBUTIONS PRESENTED BY YOUNG INVESTIGATORS

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Chairs: Philippe Menasché (Paris, France)  
Felipe Prosper (Pamplona, Spain)

Discussants: Stefanie Dimmeler (Frankfurt, Germany)  
Bernard Gersh (Rochester, USA)  
John Martin (London, UK)  
Bernardo Nadal-Ginard (Liverpool, UK)  
James T. Willerson (Houston, USA)  
Kai C. Wollert (Hannover, Germany)

9:40 - 9:55 **Metabolic plasticity redefines cell fate**  
Clifford Folmes (André Terzic's group, Rochester, USA)

9:55 - 10:10 **Fighting human cardiac stem cells immunogenicity towards its allogenic use**  
Reem Al-Daccak (Dominique Charron's group, Paris, France)

10:10 - 10:25 **Adult cardiac stem cells are necessary and sufficient as causal agents for structural and functional cardiac regeneration and homeostasis**  
Daniele Torella (Bernardo Nadal-Ginard's group, Liverpool, UK)

10:25 - 10:40 **Cardiac adipose tissue for cardiac regeneration**  
Carolina Gálvez (Antonio Bayes-Genis's group, Barcelona, Spain)

10:40 - 10:55 **Human relevance of pre-clinical studies in stem cell therapy: systematic review and meta-analysis of large animal models of ischaemic heart disease**  
Tycho van der Spoel (Steven A.J. Chamuleau's group, Utrecht, The Netherlands)

10:55 - 11:10 **Discussion**

## 11:10 - 11:30 COFFEE BREAK

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**11:30– 13:20 HOT TOPICS OF THE YEAR**

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Chairs: Kai C. Wollert (Hannover, Germany)  
 André Terzic (Rochester, USA)

Discussants: Doris Taylor (Houston, USA)  
 Bernardo Nadal-Ginard (Liverpool, UK)  
 Juan Carlos Chachques (Paris, France)  
 Dominique Charron (Paris, France)  
 Philippe Menasché (Paris, France)  
 Timothy Henry (Minnesota, USA)

11:30 - 11:50 **NON CARDIOVASCULAR TOPIC OF THE YEAR**  
**Tracheobronchial transplantation with a stem-cell-seeded bioartificial nanocomposite: a proof-of-concept study**  
 Paolo Machiarini (Stockholm, Sweden)

11:50 – 12:10 **BASIC CARDIOVASCULAR TOPIC OF THE YEAR**  
**Towards Cardiac Regenerative Medicine: Lessons learned**  
 Kenneth R. Chien (Cambridge, USA)

12:10 – 12:30 **TRANSLATIONAL CARDIOVASCULAR TOPIC OF THE YEAR**  
**Cardiospheres in the treatment of myocardial infarction**  
 Eduardo Marban (Los Angeles, USA)

12:30 – 12:50 **CLINICAL CARDIOVASCULAR TOPIC OF THE YEAR**  
**Bone marrow cells in STEMI. Is the field really ready for an outcomes-based trial?**  
 Andreas Zehier (Frankfurt, Germany)

12:50 – 13:10 **Pannel Discussion**

**13:10 - 14:10 CLOSING SESSION**

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Chairs: Arturo Fernández Cruz (Madrid, Spain)  
 Rafael Matesanz (Madrid, Spain)

13:10 – 13:30 **Driving heart progenitor cell fate and regeneration via modified mRNA**  
 Kenneth R. Chien (Cambridge, USA)

13:30 – 13:50 **Translational studies in tissue engineering**  
 Antonio Bayes Genis (Barcelona, Spain)

13:50 – 14:10 **Networks for clinical trials in cardiovascular stem cell therapy. The NIH experience**  
 Robert Simari (Rochester, USA)

14:10 - 14:20 **ADJOURN**

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Francisco Fernández-Avilés

(Madrid, Spain)





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- **Servicio de Cardiología. Hospital General Universitario Gregorio Marañón, Madrid.**
- **Instituto de Ciencias del Corazón (ICICOR). Hospital Clínico-Universitario de Valladolid**
- **Red Temática de Investigación Cardiovascular del Instituto de Salud Carlos III (RECAVA)**
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- **Grupo de Terapia Celular Aplicada al Miocardio (TECAM, Hospital General Universitario Gregorio Marañón, Hospital Clínico-Universitario de Valladolid, Hospital Río Hortega, Instituto de Biología y Genética Molecular)**
- **Task Force on Stem Cell Regeneration of the Heart (European Society of Cardiology)**

This symposium is aimed at both medical and non-medical scientists interested in the study and application of stem cell therapy and other biotechnological advances for the prevention and treatment of cardiovascular failure. For this reason the audience comprises:

- a. Preclinical researchers from all areas wishing to deepen their knowledge of cardiovascular biotechnological developments with therapeutic potential.
- b. Doctors specialising in the care of patients suffering from cardiovascular diseases, and who are interested in finding out about and discussing the current state of affairs and the future prospects for the application of these new therapeutic methods.
- c. Doctors involved in interventions dedicated to cardiovascular pathology and who are interested in the results and perspectives of gene vehiculization techniques, the stimulation of endogenous progenitors, cell transplant or electromechanical helps to fight cardiovascular disease.
- d. Medical or no medical professionals interested in the development of units and networks aimed at the translation of cardiovascular knowledge from bench to bedside and vice versa.
- e. Medical or no medical professionals interested in envisaging the opportunities for competition of biotechnology in the cardiovascular field

At the end of the conference those present will have acquired the following skills:

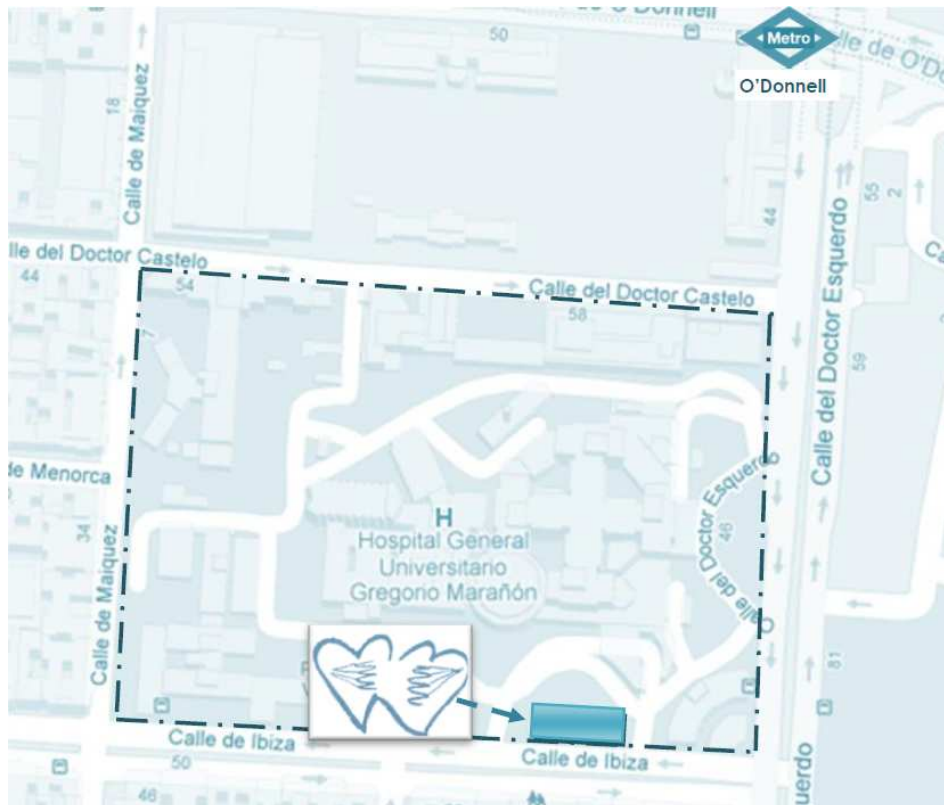
1. Knowledge and ability to discuss the latest advances in the role of progenitor cells in the integrity of the cardiovascular system of a healthy individual.
2. Knowledge and ability to discuss the latest experimental advances in the renewal and repair capacity of the damaged cardiovascular structure via the transplant of adult or embryonic stem cells or the stimulation of endogenous progenitors,.
3. Know about and be able to objectively debate the current state of feasibility, safety and efficacy with regards to the clinical application of cell therapy and other new biotechnological treatments.
4. Knowledge and ability to debate objectively on the efficiency of these types of treatment in patients with acute or chronic cardiovascular diseases.
5. Ability to predict the possibilities of scientific and professional attitude with regards to offering these therapeutic methods.
6. Ability to evaluate and decide one's own ability to participate in the application of these therapies for healthcare, clinical, and preclinical purposes.
7. Ability to identify those institutions and groups with the highest performance capabilities in these fields, and be able to establish contacts for educational, scientific, and healthcare purposes.

Analisa Angelini	(Padova, Italy)	Michal Tendera	(Katowice, Poland)
Rafael Bañares	(Madrid, Spain)	André Terzic	(Rochester, USA)
Joseph Bartunek	(Aalst, Belgium)	Thomas Thum	(Hannover, Germany)
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**MEETING VENUE**

Aula Magna. Pabellón Docente. Hospital General Universitario Gregorio Marañón.

C/ Ibiza, 43. 28007 Madrid, Spain

**DATE**

June 7<sup>th</sup> and 8<sup>th</sup>, 2012

**OFFICIAL LANGUAGES**

English and Spanish (simultaneous translation will be available)

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The website [www.cardiovascularcelltherapy.com](http://www.cardiovascularcelltherapy.com) is a virtual place which contains all the information related to this Symposium and its previous editions

It is possible through this web-site to access the scientific program, to register and to reserve accommodation.

It is also a priority for this web site to offer updated information about Stem Cell Therapy for Cardiovascular Diseases, so appropriate access to related sites has been created.

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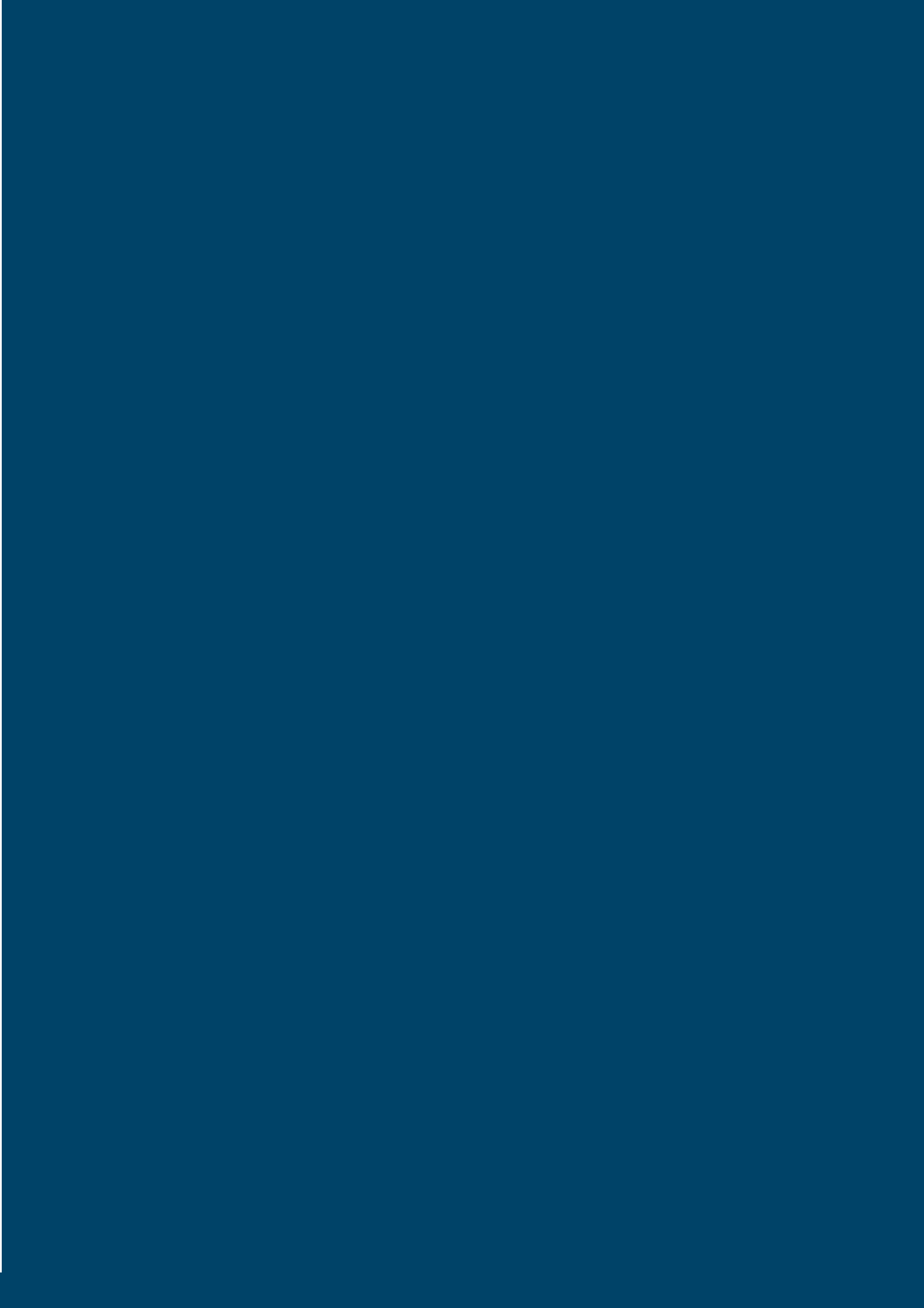
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