



Collaborative Understanding of the Range and Evolution of Osteosarcoma Single-cells
MIB AGENTS OSTEOSARCOMA ALLIANCE



Foster consortium

Fight OsteoSarcoma Through European Research

The role of networks in advancing patient care in sarcomas

Emanuela Palmerini, co-Chair of FOSTER consortium

MD, PhD, Medical Oncologist, University of Miami, Miami, FL, USA

Nathelie Gaspar, Chair of FOSTER consortium

MD PhD, Pediatric oncologist, Gustave Roussy, Paris, France

WHAT IT TAKES TO START A NETWORK

A unmet need



Osteosarcoma

Rare disease

No survival improvement in 40 years

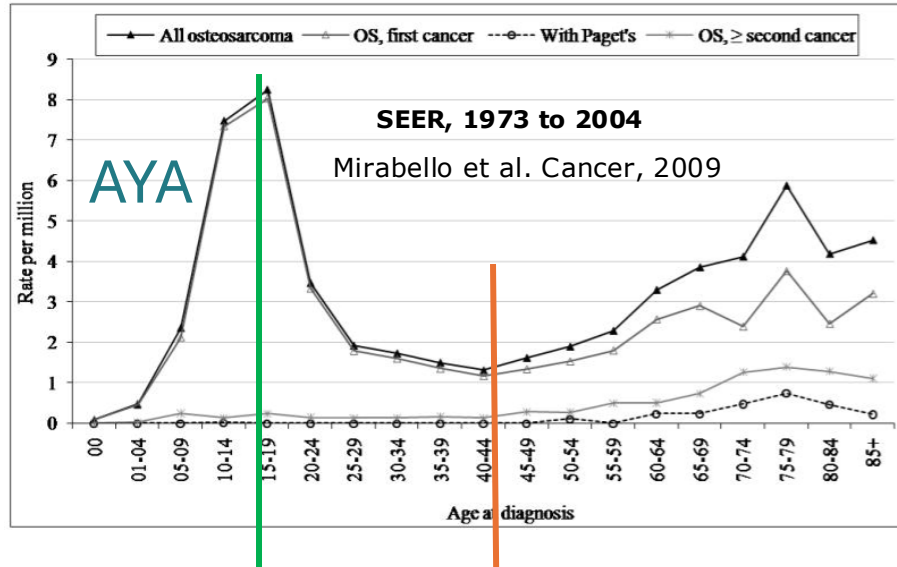
No new drug in first-line treatment

Few drugs in relapse

No European clinical collaboration since the end of EURAMOS trial in 2012

No European place for discussions between researchers/clinicians

No patient/parent voice



AYA

18 y barrier in Phase2

40-50 y barrier in Phase3

WHAT IT TAKES TO START A NETWORK

A common goal



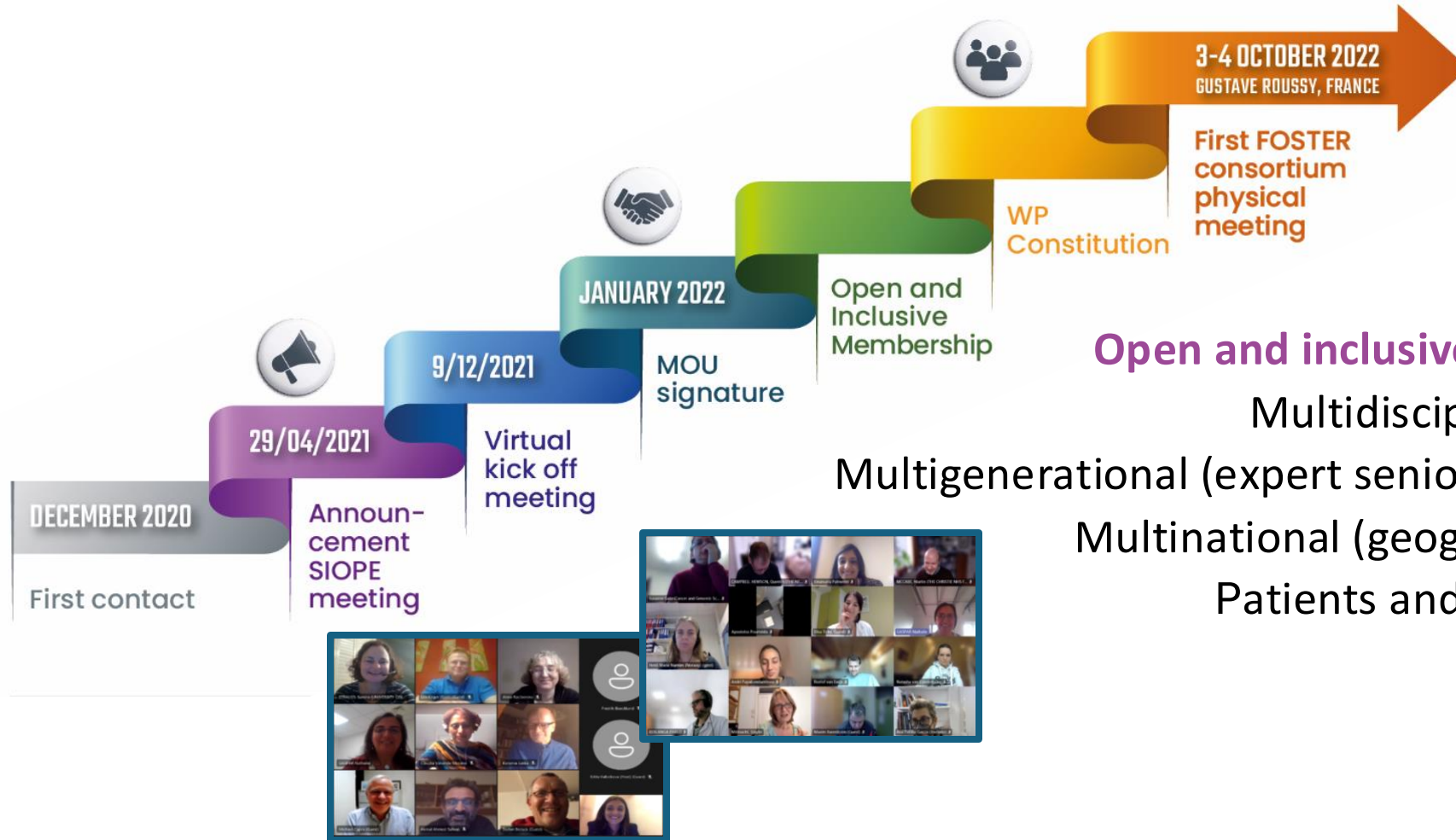
Over-arching objective

To improve outcome of patients with osteosarcoma,
in terms of duration and quality of life of survivors

- to describe the current knowledge,
- to define the unmet needs, the current gaps and missing information
- and to set-up the actions to meet those needs and fill-up these gaps
- to ultimately changes practices and improve survival

WHAT IT TAKES TO START A NETWORK

Enthusiasm to work together



Open and inclusive Membership

Multidisciplinary,

Multigenerational (expert seniors and young investigators),

Multinational (geographic Europe),

Patients and Parents

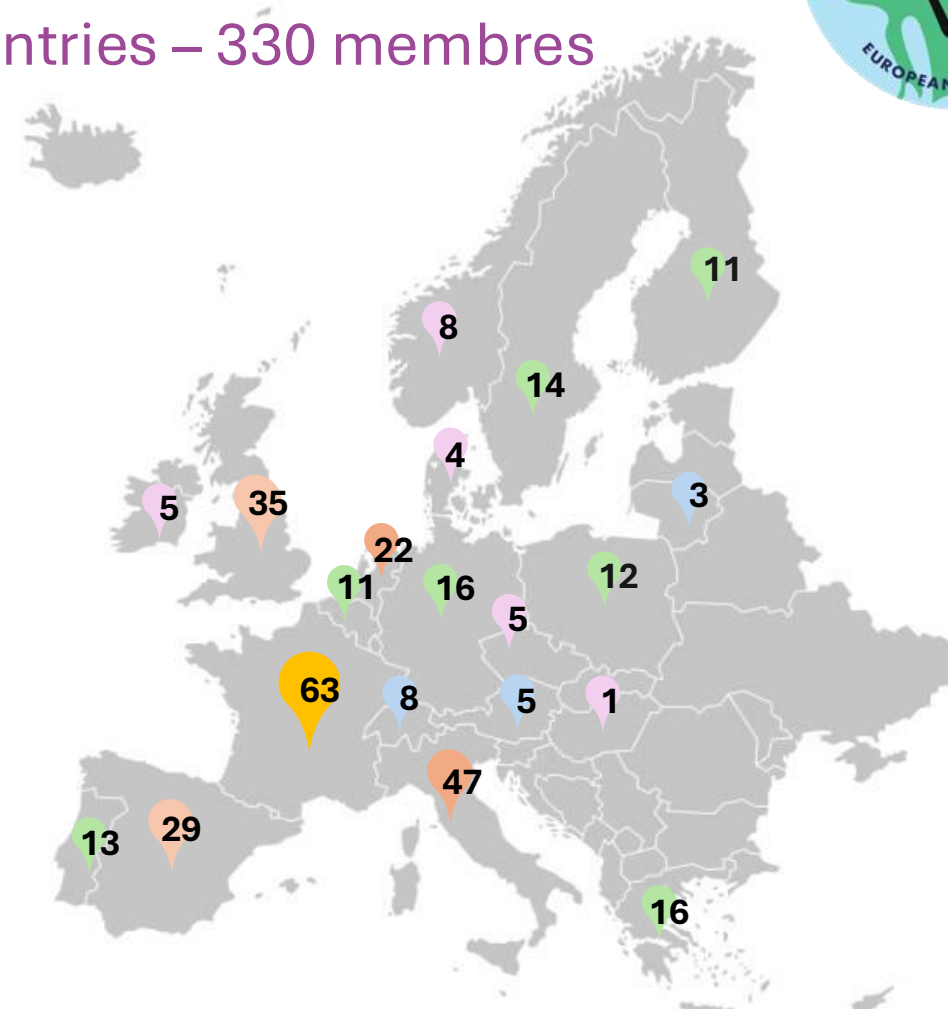
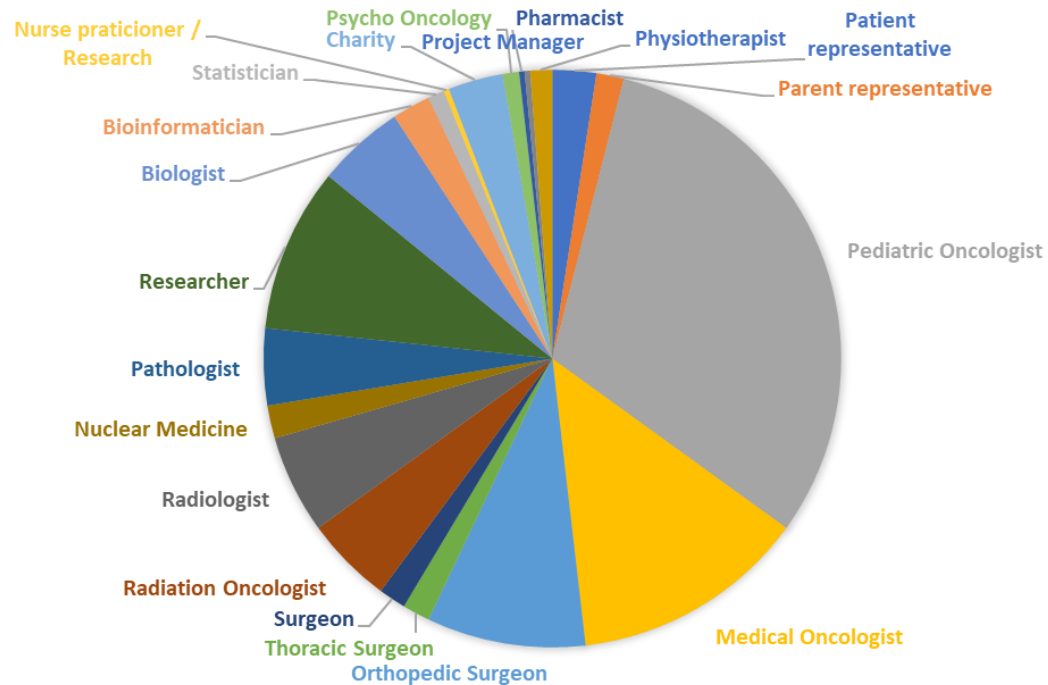


WHAT IT TAKES TO START A NETWORK

The network



20 countries – 330 membres



THE ROLE OF NETWORK

Structuration of the consortium



Meet FOSTER Executive Committee

Chair : Nathalie Gaspar

Co-Chair : Emanuela Palmerini

Leo Kager

Edita Kabickova

Jukka Kanerva

Stefan Bielack

Evgenia Papakonstantinou

Michael Capra

Anna Raciborska

Cristina Mendes

Fredrik Baecklund

Thomas Kühne

Hans Gelderblom

Kjetil Boye

Claudia Valverde

Sandra Strauss

Gwen Sys

Akmal Safwat

Marieke Kuijer

Marco Gambarotti

Pan Pantziarka

Natalia Fernandez

Roelof Van Fwijk

Vilma Rutkai

Monika Csóka

- 1 Chair & 1 Co-Chair
- 11 Pediatric oncologist
- 1 Young Investigator
- 5 medical oncologists
- 1 Radiation Oncologist
- 1 Surgeon
- 1 Pathologist
- 1 Researcher
- 1 Patient representative
- + 1 Parent representative

THE ROLE OF NETWORK

Structuration of the work



WP1: Biology, Preclinical study, translational research

WP2: Molecular profiling programs, molecularly driven trials, and early drug development

WP3: Relapse trials

WP4: First line trials

WP5: Primary tumour and metastatic local treatments

WP6: Imaging radiomics questions

WP7: Quality of life, functional outcomes and long term effects

WP8: Data sharing and knowledge dissemination

WP9: Predisposition syndroms from biology to treatment

FOSTER patient/parent group

FOSTER young investigator group

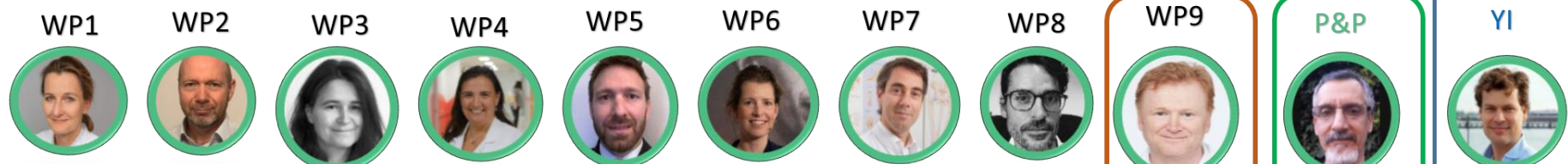
Objectives
Milestones
Regular Virtual
meetings

THE ROLE OF NETWORK

Structuration of the Leadership

Meet the Leaders, co-leaders, secretaries

Elected
Leaders



Michaela
Nathrath

Martin
McCabe

Stefanie
Hecker-Notling

Nathalie
Gaspar

Eric
Staals

Kirsten
Van Langevelde

Michiel
Van de Sande

Antonin
Marchais

Leo
Kager

Pan
Pantziarka

Roelof
van Ewijk

Elected
Co-leaders



Katia
Scotlandi

Emanuela
Palmerini

?

Sandra
Strauss

Craig
Gerrard

Hans
Merks

Thorsten
Langer

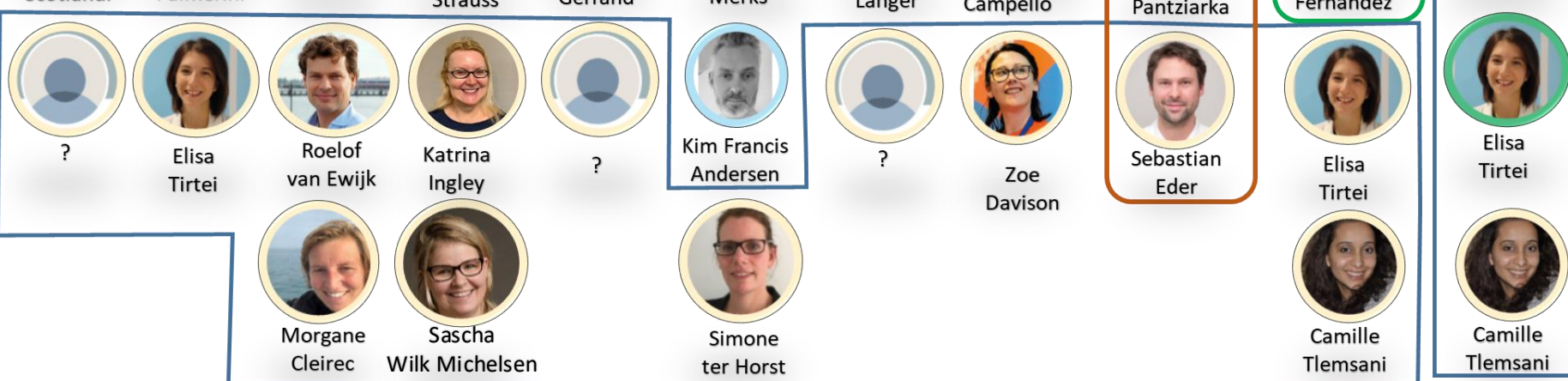
Anna
Campello

Pan
Pantziarka

Natalia
Fernandez

Noelle
Cullinan

Volunteer
YI Secretary



Elisa
Tirtei

Roelof
van Ewijk

Katrina
Ingley

Kim Francis
Andersen

Zoe
Davison

Sebastian
Eder

Elisa
Tirtei

Elisa
Tirtei

Morgane
Cleirec

Sascha
Wilk Michelsen

Simone
ter Horst

Camille
Tlemsani

Camille
Tlemsani



Nathalie GASPAR

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THE ROLE OF NETWORK

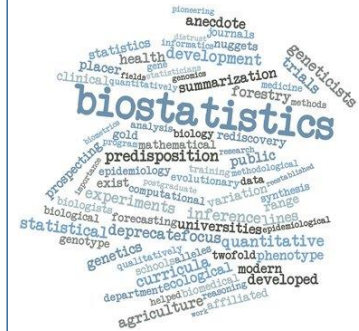
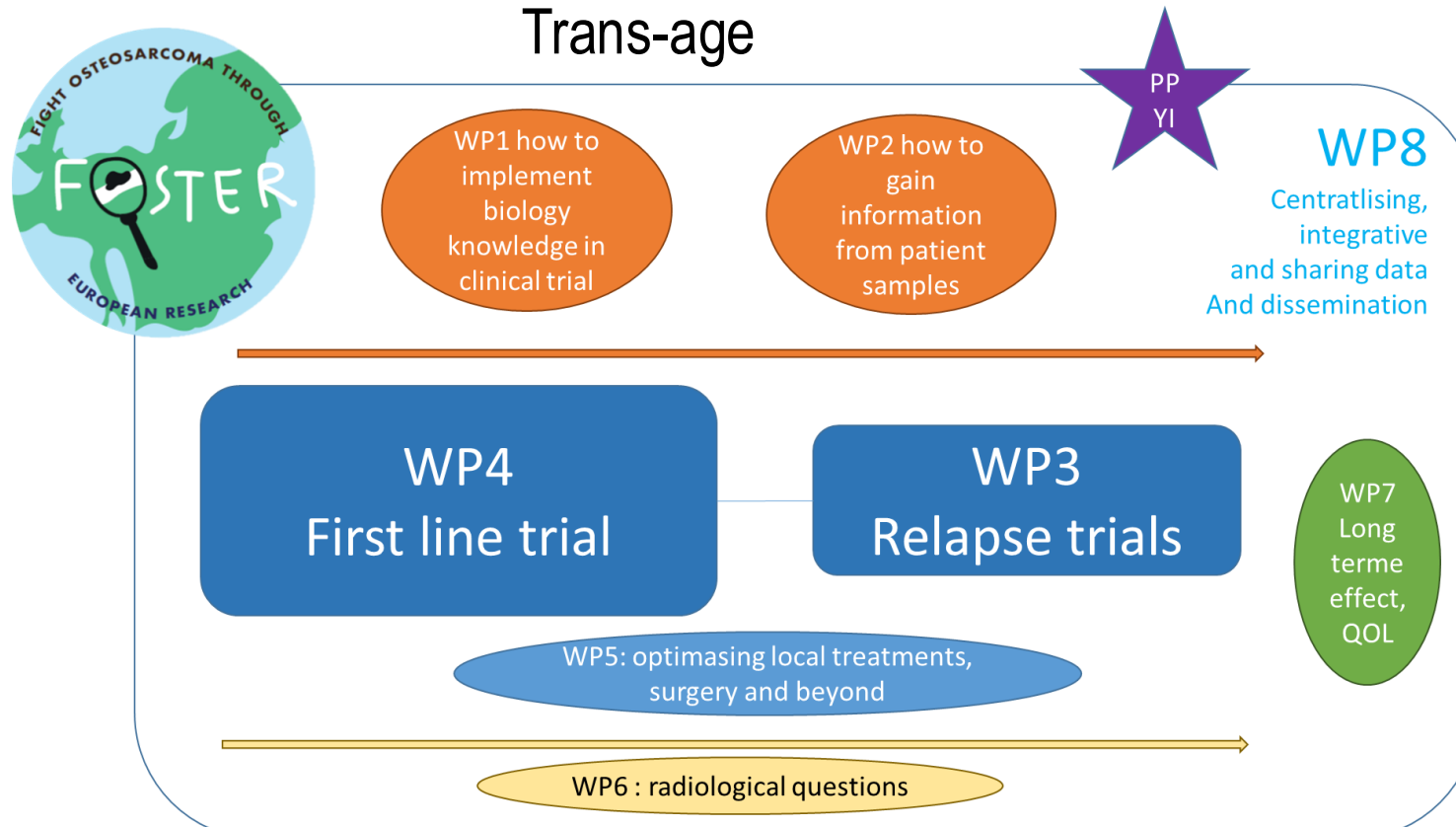
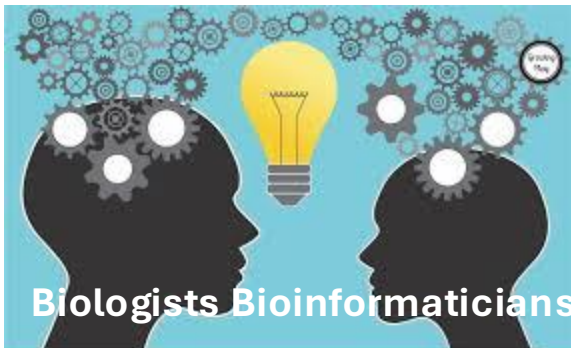
To build a common project!



Bring
New drugs
IN !!!



Bring Biology IN !!!



THE ROLE OF NETWORK

Mentorship for young investigators



FOSTER minions



YI steering committee



Roelof
van Ewijk

YI Chair
FOSTER-EC member



Noelle
Cullinan



Elisa
Tirtei



Thibaud
Valentin



Camille
Tlemsani

Aims and organisation

- Support the goal of FOSTER and gain expertise / network by driving the work in FOSTER
- Guide new YI in FOSTER / connect YI with experts
- Collaborate with EC to optimize involvement of YI

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Need for a project administrative coordination



Esperanza Perez

Project manager

FosterConsortium@gustaveroussy.fr

THE ROLE OF NETWORK

To have an identity

Logo contest Winner

Joanna



Logo re-designed
by **Hanna Narding**



Price : a stay in Paris & a trip to Disneyland Paris
for Joanna and her family offered by Imagine for Margo



myrovlytis
trust
FIGHT
OSTEO-
SARCOMA
THROUGH
EUROPEAN
RESEARCH

<https://fosterconsortium.org/>



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@FOSTER consortium

THE ROLE OF NETWORK

Editorial and educational: manuscript dissemination

Reccurent Osteosarcoma



Cancer Treatment Reviews 120 (2023) 102625



ELSEVIER

Contents lists available at ScienceDirect

Cancer Treatment Reviews

journal homepage: www.elsevier.com/locate/ctrv



Systematic or Meta-analysis Studies

A systematic review of recent phase-II trials in refractory or recurrent osteosarcoma: Can we inform future trial design?

Roelof van Ewijk^a, Morgane Cleirec^b, Nikolas Herold^c, Marie-Cécile le Deley^{d,e}, Natasha van Eijkelenburg^a, Pascaline Boudou-Rouquette^f, Séverine Risbourg^d, Sandra J. Strauss^g, Emanuela Palmerini^h, Kjetil Boyeⁱ, Leo Kager^{j,k}, Stefanie Hecker-Nolting^l, Antonin Marchais^{m,n}, Nathalie Gaspar^{m,n,*}, On behalf of the FOSTER Consortium (Fight OsteoSarcoma Through European Research), work package 3 on recurrent/refractory osteosarcoma trials

Van Ewijk R et al, Can Tre Rev 2023

Prognostic Factor Newly Diagnosed Osteosarcoma

"Prognostic factors in newly diagnosed high-grade osteosarcoma - a systematic review" by Tirtei, Elisa; Michelsen, Sascha Wilk; Haveman, Lianne; Meazza, Cristina; Oliveira, Joana F.; Rasool, Ayesha; Palmerini, Emanuela; Wilson, William; GASPAR, NATHALIE; Strauss, Sandra; Papakonstantinou, Andri; Baecklund, Fredrik, has been successfully submitted online and is presently being given full consideration for publication in Cancer Medicine.

Tirtei E et al, CAM 2025

THE ROLE OF NETWORK

Guidelines and Collaborations with other Societies

Publications

Position Papers



EJC Paediatric Oncology 2 (2023) 100029

Contents lists available at [ScienceDirect](#)

EJC Paediatric Oncology

journal homepage: www.journals.elsevier.com/ejc-paediatric-oncology



Review

European standard clinical practice recommendations for children and adolescents with primary and recurrent osteosarcoma

Roelof van Ewijk^{a,1,2,*}, Nikolas Herold^{b,1,3}, Fredrik Baecklund^{b,4}, Daniel Baumhoer^{c,5}, Kjetil Boye^{d,6}, Nathalie Gaspar^{e,7}, Semi B. Harrabi^{f,8}, Lianne M. Haveman^{a,9}, Stefanie Hecker-Nolting^{g,10}, Laura Hiemcke-Jiwa^{h,11}, Valentine Martin^{i,12}, Cristina Mata Fernández^{j,13}, Emanuela Palmerini^{k,14}, Michiel A.J. van de Sande^{a,1,15}, Sandra J. Strauss^{m,16}, Stefan S. Bielack^{g,n,17,18}, Leo Kager^{o,17,19}



Van Ewijk R et al, E J of Ped onc 2023

CLINICAL CANCER RESEARCH | PERSPECTIVE

Biological Sample Collection to Advance Research and Treatment: A Fight Osteosarcoma Through European Research and Euro Ewing Consortium Statement

Darrell Green¹, Roelof van Ewijk², Elisa Tirtei^{3,4}, Dimosthenis Andreou⁵, Fredrik Baecklund⁶, Daniel Baumhoer⁷, Stefan S. Bielack⁸, Rajesh Botchu⁹, Kjetil Boye¹⁰, Bernadette Brennan¹¹, Michael Capra¹², Lucia Cottone¹³, Uta Dirksen¹⁴, Franca Fagioli^{3,4}, Natalia Fernandez¹⁵, Adrienne M. Flanagan^{13,16}, Marco Gamberotti¹⁷, Nathalie Gaspar^{18,19}, Hans Gelderblom²⁰, Craig Gerrand²¹, Anne Gomez-Mascard^{22,23}, Jendrik Hardes²⁴, Stefanie Hecker-Nolting⁸, Edita Kabickova²⁵, Leo Kager^{26,27}, Jukka Kanerva²⁸, Lennart A. Kester², Marieke L. Kuijjer^{29,30,31}, Valérie Laurence³², Cyril Lervat³³, Antonin Marchais¹⁸, Perrine Marec-Berard³⁴, Cristina Mendes³⁵, Johannes H.M. Merks^{2,36}, Benjamin Ory³⁷, Emanuela Palmerini³⁸, Pan Pantziarka^{15,39,40}, Evgenia Papakonstantinou⁴¹, Sophie Piperno-Neumann³³, Anna Raciborska⁴², Elizabeth A. Roundhill⁴³, Vilma Rutkauskaitė⁴⁴, Akmal Safwat⁴⁵, Katia Scotlandi⁴⁶, Eric L. Staats⁴⁷, Sandra J. Strauss⁴⁸, Didier Surdez⁴⁹, Gwen M.L. Sys⁵⁰, Marie-Dominique Tabone⁵¹, Maud Toulmonde⁵², Claudia Valverde⁵³, Michiel A.J. van de Sande⁵⁴, Klaus Wörter⁵⁵, Quentin Campbell-Hewson^{56,1}, Martin G. McCabe^{57,58}, and Michaela Nathrath^{59,60}



Green D, Clin Can Res 2024

Salt Lake City, Utah, 26 June 2025

Quality of Life



REVIEW ARTICLE

The landscape of Functional Outcome Measures Used in Patients with Bone Sarcoma of the Lower Extremity or Pelvis: A Systematic Review

Leonie G. Tigelaar, Kiki J. Blom, Willem P. Bekkering, Jos A. M. Bramer, Hendrik W. B. Schreuder, Sherron Furtado, Craig H. Gerrand, Emanuela Palmerini, Nathalie Gaspar, Sandra J. Strauss, Michiel A. J. Van de Sande, Johannes H. M. Merks, Lianne M. Haveman✉

FOSTER Consortium and the EuroEwing Consortium



The landscape of Functional Outcome Measures Used in Patients with Bone Sarcoma of the Lower Extremity or Pelvis: A Systematic Review

Leonie G. Tigelaar, Kiki J. Blom, Willem P. Bekkering, Jos A. M. Bramer, Hendrik W. B. Schreuder, Sherron Furtado, Craig H. Gerrand, Emanuela Palmerini, Nathalie Gaspar, Sandra J. Strauss, Michiel A. J. Van de Sande, Johannes H. M. Merks, Lianne M. Haveman✉

FOSTER Consortium and the EuroEwing Consortium

Tigelaar LG et al, J Surg Onc 2024

Research Article

Quality of Life and Patient-Reported Outcomes in Patients With Osteosarcoma: A Systematic Review

Ana Sebio¹, Claire Berger², Marie-Dominique Tabone³, Natalia Fernandez⁴, Faustine Tardy⁵, Martha Grootenhuis⁶, Emanuela Palmerini^{6,7,8}, Nathalie Gaspar⁹, Michiel van de Sande⁵, Lianne M. Haveman⁵, and on behalf of the FOSTER Consortium¹⁰

¹Department of Medical Oncology, Hospital Santa Creu i Sant Pau, Barcelona, Spain

²Department of Pediatric Hematology and Oncology Unit, CHU Saint-Etienne, Saint-Etienne, France

³Department of Pediatric Onco-Hematology, Armand Trousseau Hospital, Paris, France

⁴Departamento de Turismo y Hostelería, University Escuela de Turismo y Hostelería, Barcelona, Spain

⁵Department of Solid Tumors, Princess Máxima Center for Pediatric Oncology, Utrecht, Netherlands

⁶Osteoncolology, Bone and Soft Tissue Sarcomas and Innovative Therapies, IRCCS Istituto Ortopedico Rizzoli, Bologna, Italy

⁷Sylvester Comprehensive Cancer Center, University of Miami, Miami, Florida, USA

⁸Miller School of Medicine, University of Miami, Miami, Florida, USA

⁹Department of Oncology for Child and Adolescent, Gustave Roussy Cancer Campus, Villejuif, France

¹⁰Gustave Roussy Cancer Campus, Villejuif, France

Sebio A et al, E J of Can Care 2025



THE ROLE OF NETWORK

Clinical Trials and Grant support



ATTRACT

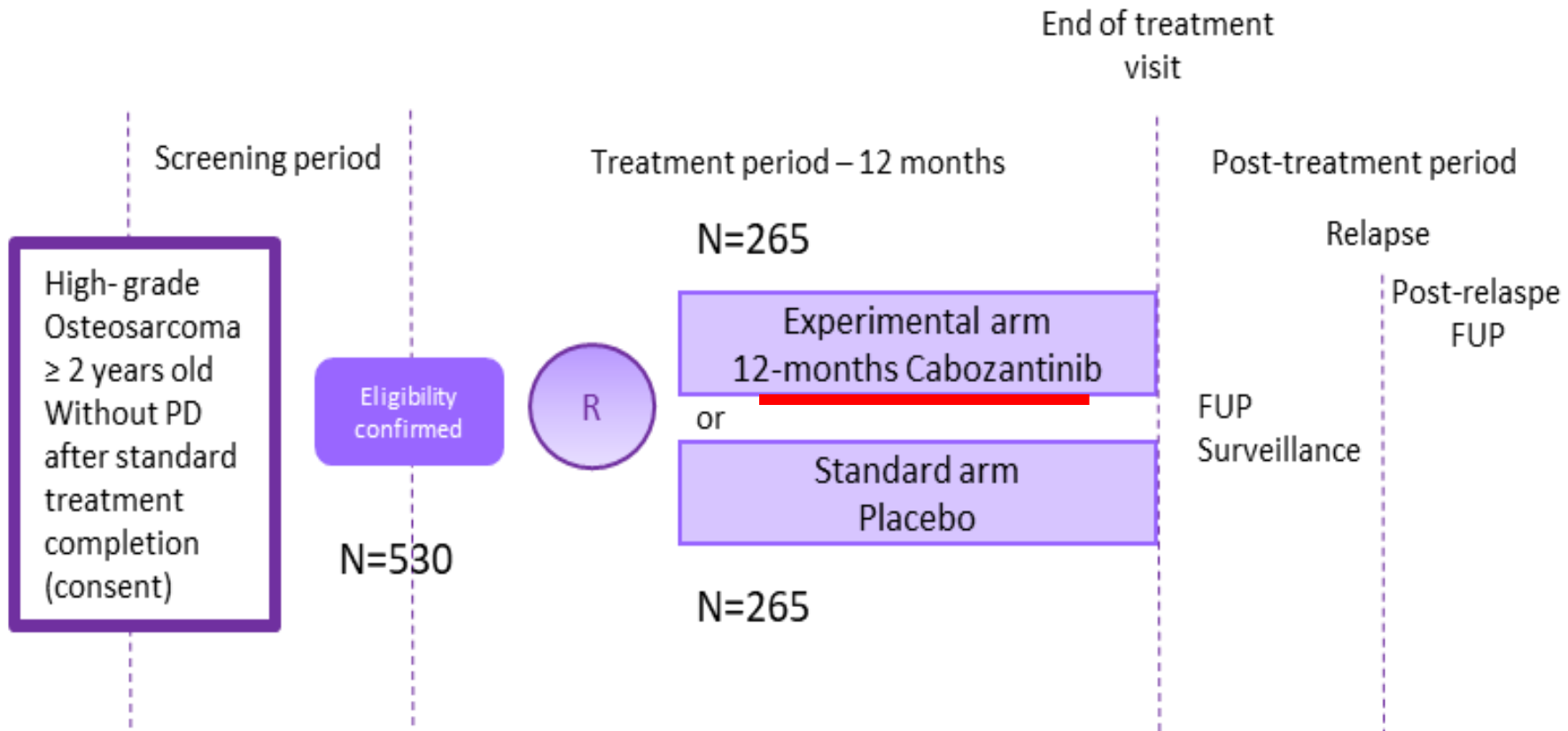
Accelerate Together Rare Cancer Treatment



Randomisation



FOSTER-CabOS Randomised double blinded Phase-3 trial



To open in
Dec 2024
- Jan 2025

THE ROLE OF NETWORK

A constant reminder on why we started all that



Strong Patient and Parent involvement



Pan
Pantziarka



Natalia
Fernandez



- Involved in each FOSTER consortium WP
- Contribution to trial design discussions in first line and in relapse, including the choice of drug and the issue of placebo-control or not
- Feedback on the funding/trial applications that FOSTER members have been involved in, including the design of patient and public involvement (PPI) activities, discussions of dissemination of results
- ...



FOSTER-EC members

THE ROLE OF NETWORK

Physical interactions

...or the **OPPORTUNITY?**



2022



Institut Gustave Roussy
Villejuif, France

2023



Instituto Rizzoli
Bologna, Italy

2024

3rd FOSTER
meeting
26-27 of
September 2024



THANK YOU



<https://fosterconsortium.org/>

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nathalie.gaspar@gustaveroussy.fr

4th FOSTER meeting
Warsav, 26-27 of September 2025

ACKNOWLEDGMENTS



Patient and Parent associations



FOSTER-CaboS part-2

2023



ATTRACT

Accelerate Together Rare Cancer Treatment

