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General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

<https://www.ncbi.nlm.nih.gov/myncbi/165SPVbnx9aQt/bibliography/public/>



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

University degree: Higher degree

Name of qualification: Licenciado en Medicina y Cirugía

Degree awarding entity: Universitat de Barcelona **Type of entity:** University

Date of qualification: 30/06/2002

Doctorates

Doctorate programme: Doctor por la Universitat de Barcelona dentro del Programa en Medicina

Degree awarding entity: Universitat Autònoma de Barcelona **Type of entity:** University

Date of degree: 22/11/2017

Other postgraduate university studies

- 1 Postgraduate qualification:** Experto Universitario en Patología Urgente en Edades Extremas y Técnicas en Urgencias
Degree awarding entity: Universidad Francisco de Vitoria **Type of entity:** University
Date of qualification: 2020
- 2 Postgraduate qualification:** Experto Universitario en Patología Medica Urgente
Degree awarding entity: Universidad Francisco de Vitoria **Type of entity:** University
Date of qualification: 2019
- 3 Postgraduate qualification:** Experto Universitario en Patología Vital Urgente
Degree awarding entity: Universidad Francisco de Vitoria **Type of entity:** University
Date of qualification: 2019
- 4 Postgraduate qualification:** Experto en Urgencias toxicológica, traumatológicas y pediátricas
Degree awarding entity: Universitat de Barcelona **Type of entity:** University
Faculty, institute or centre: IL-3
Date of qualification: 30/11/2018
- 5 Postgraduate qualification:** Postgrado en Liderazgo orgánico
Degree awarding entity: Escuela Universitaria de Negocios de la Caixa d'Estalvis de Terrassa **Type of entity:** University Centres and Structures and Associated Bodies
Date of qualification: 30/06/2018



- 6 Postgraduate qualification:** Experto en Urgencias cardiovasculares, críticas e infecciosas
Degree awarding entity: Universitat de Barcelona **Type of entity:** University
Faculty, institute or centre: IL-3
Date of qualification: 01/07/2017
- 7 Postgraduate qualification:** Master en Proteccion Civil y Gestión de Emergencias
Degree awarding entity: Universitat de València **Type of entity:** University
Date of qualification: 31/12/2009

Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

- 1 Training title:** Board in Transplant coordination
Awarding entity: UEMS. Section Surgery **Type of entity:** University Centres and Structures and Associated Bodies
End date: 30/09/2017
- 2 Training title:** ? I Curso de Seguridad y Riesgo en el Enfermo Crítico
Awarding entity: SOCIEDAD ESPAÑOLA DE MEDICINA **Type of entity:** Associations and Groups
End date: 30/06/2012 **Duration in hours:** 60 hours
- 3 Training title:** Instructor en Soporte Vital avanzado
Awarding entity: Sociedad Española de Medicina Intensiva y Cuidados Criticos **Type of entity:** Associations and Groups
End date: 31/12/2009 **Duration in hours:** 40 hours
- 4 Training title:** ? Curso Universitario de Cualificación para Sanitarios en Misiones Hems
Awarding entity: Universidad de Zaragoza **Type of entity:** University
End date: 30/06/2009 **Duration in hours:** 100 hours
- 5 Training title:** ? Curso Superior Internacional en Coordinación de Trasplantes. Transplant Procurement Mangement
Awarding entity: Universitat de Barcelona,IL3 **Type of entity:** University
End date: 31/03/2009
- 6 Training title:** American Trauma Life Support course.
Awarding entity: Asociación Española de Cirujanos **Type of entity:** Associations and Groups
End date: 12/11/2007 **Duration in hours:** 40 hours

Specialized healthcare studies

Name of the speciality: Medicina Intensiva
Awarding entity: Hospital Mútua de Terrassa **Type of entity:** Healthcare Institutions
City awarding entity: Terrassa, Catalonia, Spain
Start-End date: 01/06/2004 - 30/05/2009 **Duration:**



Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	B2	C1	B2	B2	B2
Catalan	C2	C2	C2	C2	C2

Teaching experience

Teaching experience in the field of specialized healthcare

Name of the speciality: Medicina Intensiva

Awarding entity: Hospital Mútua de Terrassa

Unit: Medicina Intensiva

Start date: 01/06/2009

Type of entity: Healthcare Institutions

Other activities/achievements not included above

Description of the activity: Profesor médico asociado

Organising entity: Universitat de Barcelona

Type of entity: University

Healthcare experience

Conferences, courses and seminars focused on medical care

- 1 Organising entity:** Sociedad Española de Calidad Asistencial
City organizing entity: Madrid, Community of Madrid, Spain
Date of presentation: 01/10/2014
 9. Aplicación del Lean Management y el Análisis Modal de Fallos y Efectos en el Código ICTUS.
- 2 Organising entity:** Sociedad Panamericana de Medicina Intensiva y Terapia Crítica
City organizing entity: Madrid,
Date of presentation: 01/06/2014
 8. Efecto fisiológico sobre los reanimadores y repercusión en la calidad de la resucitación durante la realización de compresiones torácicas externas.
- 3 City of entity:** Lleida, Catalonia, Spain
Organising entity: SOCMIC
Date of presentation: 01/03/2012
 7. Compliment de les mesures de prevenció de les úlceres per pressió en una unitat de cures intensives en el marc d'un programa de millora.



- 4** **Organising entity:** ESICM **Type of entity:** Associations and Groups
City organizing entity: Belgium
Date of presentation: 01/10/2010
5. Results of a program to reduce catheter-related bloodstream infection in the icu: two years' follow-up ".
- 5** **City of entity:** Valladolid,
Organising entity: SEMICYUC **Type of entity:** Associations and Groups
City organizing entity: Madrid, Spain
Date of presentation: 01/06/2009
22. Programa de mejora para reducir las bacteriemias relacionadas con catéter venoso central en la UCI del Hospital universitario Mutua de Terrasa. Evaluación de los resultados..
- 6** **City of entity:** Valencia, Spain
Organising entity: SEMICYUC **Type of entity:** Associations and Groups
Date of presentation: 01/06/2008
19. Grado de conocimiento sobre la Ley de Voluntades Anticipadas entre los familiares de los pacientes ingresados en SEMI-UCI.
- 7** **City of entity:** Zaragoza,
Organising entity: Organización Nacional de Trasplantes **Type of entity:** Healthcare Institutions
Date of presentation: 01/06/2008
Donantes en asistolia tipo III de Maastricht.
- 8** **City of entity:** Paris, France
Organising entity: SRLF **Type of entity:** Associations and Groups
City organizing entity: Paris, France
6. Aérosolthérapie en réanimation: observation multicentrique des pratiques sur deux semaines.
- 9** **City of entity:** Paris, France
Organising entity: SRLF
6. Aérosolthérapie en réanimation: observation multicentrique des pratiques sur deux semaines..
- 10** **City of entity:** Bilbao, Basque Country, Spain
Organising entity: SEMICYUC **Type of entity:** Associations and Groups
6. Fibrinólisis del ictus isquémico hiperagudo con activador tisular del plasminógeno recombinante (rTPA) tras la modificación de los criterios de trombolisis intravenosa.Experiencia en un hospital Universitario sin unidad de ictus,.



Scientific and technological experience

Research and development groups/teams

Name of the group: Grup de Recerca Interdisciplinar en Malalties Infeccioses MutuaTerrassa (GRIMIMT)
Aims of the group: Enfermedades Infecciosas
Type of collaboration: Co-authorship of projects and their development
Affiliation entity: FUNDACION MUTUA DE TERRASSA DRBS, F.P.C.
Start date: 01/01/2009

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1 Name of the project:** Antisuperbugs PCP
Nº of researchers: 6
Start date: 2017
- 2 Name of the project:** Información, comunicación y Trabajo en Equipo en Medicina Intensiva. Analisis Aleatorios de Seguridad
Type of project: Basic research (including archaeological digs, etc)
Degree of contribution: Researcher
Entity where project took place: Hospital Universitari de Tarragona Joan XIII
Type of entity: Healthcare Institutions
City of entity: Tarragona, Catalonia, Spain
Nº of researchers: 12
Name of the programme: Instituto de Salud Carlos III
Code according to the funding entity: PI16/00491
- 3 Name of the project:** Mejora en el diagnóstico de la neumonía neumocócica mediante la
Entity where project took place: Hospital Mútua de Terrassa
Type of entity: Healthcare Institutions
City of entity: Terrassa, Catalonia, Spain
Name principal investigator (PI, Co-PI....): Esther Calbo Sebastian
Nº of researchers: 5
Funding entity or bodies:
CENTRO DE ACUSTICA APLICADA Y EVALUACION NO DESTRUCTIVA
Type of entity: Associations and Groups
Instituto de Salud Carlos III
Type of entity: Public Research Body
City funding entity: Majadahonda, Community of Madrid, Spain

**R&D non-competitive contracts, agreements or projects with public or private entities****1 Name of the project:** ESTUDIO SAATELLITE**Type of project:** Industrial research**Degree of contribution:** Researcher**Funding entity or bodies:**CENTRO DE ACUSTICA APLICADA Y
EVALUACION NO DESTRUCTIVA**Type of entity:** Associations and Groups**Start date:** 2017**Relevant results:** Estudio fase II que evalúa la seguridad y la eficacia del medicamento (MED14893) un anticuerpo monoclonal humano contra la toxina alfa de Staphylococcus aureus en pacientes adultos sometidos a ventilación mecánica. Fecha de inicio: Pacientes incluidos: 5 pacientes Estudio finalizado: 01-Abril-2018**2 Name of the project:** ESTUDIO SEPCELL**Type of project:** Industrial research**Degree of contribution:** Researcher**Start date:** 2017**Relevant results:** Estudio fase Ib/11 que evalúa la seguridad y la eficacia del tratamiento CX611 (células madre) en tratamiento endovenoso para pacientes con neumonía comunitaria y ingresados en cuidados intensivos. Fecha de inicio: 31-Enero-2017 Pacientes incluidos: 6 pacientes**3 Name of the project:** ESTUDIO FOSFATASA ALCALINA**Type of project:** Industrial research**Degree of contribution:** Researcher**Start date:** 2014**Relevant results:** Estudio fase 2a/2b que investiga la seguridad, la tolerancia y la eficacia de la fosfatasa alcalina en el tratamiento de pacientes con shock séptico asociado a fallo renal. Fecha de inicio: septiembre 2014 Pacientes incluidos: 5 pacientes Estudio finalizado: Mayo 2017**4 Name of the project:** ESTUDIO TR701-132**Type of project:** Industrial research**Degree of contribution:** Researcher**Start date:** 2014**Relevant results:** Estudio fase III que compara TR-701 con linezolid, en neumonía nosocomial por grampositivos en pacientes con ventilación mecánica. Fecha de inicio: septiembre 2014 Finalizado reclutamiento debido a cambio de investigador principal. Mayo 2015 Nueva fecha de inicio: 02-Nov-2015**5 Name of the project:** ESTUDIO CAZ-AVI**Type of project:** Industrial research**Degree of contribution:** Researcher**Start date:** 2013**6 Name of the project:** ESTUDIO INHALE**Type of project:** Industrial research**Degree of contribution:** Researcher**Start date:** 2013**Relevant results:** Estudio fase III que evalúa la eficacia y la seguridad de la Amikacina nebulizada versus placebo como terapia adjunta en pacientes intubados con neumonía gram negativa.

**7 Name of the project:** ESTUDIO CUBIST**Type of project:** Industrial research**Degree of contribution:** Researcher**Start date:** 2012**Relevant results:** Estudio fase III multicéntrico para comparar la eficacia y la seguridad de CXA-201 intravenoso con la de meropenem en infecciones intraabdominales complicadas. Fecha de inicio: septiembre 2012 Pacientes incluidos: 9 pacientes Estudio finalizado .

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1 Stephan Ehrmann; Ferran Roche Campo; Laetitia Bodet Contentin; Keyvan Razazi; Jonathan Dugernier; Josep Trenado Alvarez; Alexis Donzeau; François Vermeulen; David Thévoz; Metaxia Papanikolaou; Antoine Edelson; Héctor León Yoshido; Lise Piquilloud; Karim Lakhal; Carlos Lopes; Carlos Vicent; Arnaud Desachy; Gabriela Apiou Sbirlea; Daniel Isabey; Laurent Brochard. Aerosol therapy in intensive and intermediate care units: prospective observation of 2808 critically ill patients. *Intensive care medicine*. 42 - 2, pp. 192 - 393. 02/2016. ISSN 1432-1238
- 2 Baltasar Sánchez; Ramón Algarte; Enrique Piacentini; Josep Trenado; Eduardo Romay; Manel Cerdà; Ricard Ferrer; Salvador Quintana. Low compliance with the 2 minutes of uninterrupted chest compressions recommended in the 2010 International Resuscitation Guidelines. *Journal of critical care*. 30 - 4, pp. 711 - 715. 08/2015. ISSN 1557-8615
- 3 Bas van Zaane; Wilton A van Klei; Wolfgang F Buhre; Peter Bauer; E Christiaan Boerma; Andreas Hoeft; Philipp Metnitz; Rui P Moreno; Rupert Pearse; Paolo Pelosi; Michael Sander; Benoit Vallet; Ville Pettilä; Jean-Louis Vincent; Andrew Rhodes. Nonelective surgery at night and in-hospital mortality: Prospective observational data from the European Surgical Outcomes Study. *European journal of anaesthesiology*. 32 - 7, pp. 477 - 562. 07/2015. ISSN 1365-2346
- 4 F Alvarez Lerma; M P Gracia Arnillas; M Palomar; P Olaechea; J Insausti; M J López Pueyo; J J Otal; R Gimeno; I Seijas. Urethral catheter-related urinary infection in critical patients admitted to the ICU. Descriptive data of the ENVIN-UCI study. *Medicina intensiva / Sociedad Española de Medicina Intensiva y Unidades Coronarias*. 37 - 2, pp. 75 - 157. (Spain): 03/2013. ISSN 1578-6749
- 5 Rupert M Pearse; Rui P Moreno; Peter Bauer; Paolo Pelosi; Philipp Metnitz; Claudia Spies; Benoit Vallet; Jean-Louis Vincent; Andreas Hoeft; Andrew Rhodes. Mortality after surgery in Europe: a 7 day cohort study. *Lancet* (London, England). 380 - 9847, pp. 1059 - 1124. 22/09/2012. ISSN 1474-547X
- 6 O Rodríguez Colomo; F Álvarez Lerma; M I González Pérez; J-M Sirvent; M García Simón. Impact of administration of vancomycin or linezolid to critically ill patients with impaired renal function. *European journal of clinical microbiology & infectious diseases* : official publication of the European Society of Clinical Microbiology. 30 - 5, pp. 635 - 678. (Germany): 05/2011. ISSN 1435-4373
- 7 P M Olaechea; F Alvarez Lerma; M Palomar; J Insausti; M J López Pueyo; A Martínez Pellús; M L Cantón. [Impact of primary and intravascular catheter-related bacteremia due to coagulase-negative staphylococci in critically ill patients]. *Medicina intensiva / Sociedad Española de Medicina Intensiva y Unidades Coronarias*. 35 - 4, pp. 217 - 242. (Spain): 05/2011. ISSN 1578-6749



- 8 Vanessa Arauzo; Josep Trenado; Gloria Busqueta; Salvador Quintana. [Degree of knowledge on the law of advance directives among the relatives of the patients admitted to ICU]. *Medicina clínica*. 134 - 10, pp. 448 - 499. (Spain): 10/04/2010. ISSN 0025-7753
- 9 Salvador Quintana Riera; Baltasar Sánchez González; Josep Trenado Alvarez; María Del Mar Fernández Fernández; Jaume Mestre Saura. The physiological effect on rescuers of doing 2min of uninterrupted chest compressions. *Resuscitation*. 74 - 1, pp. 108 - 120. (Ireland): 07/2007. ISSN 0300-9572
- 10 J M Ayuela Azcárate; F Clau Terré; R Vicho Pereira; M Guerrero de Mier; A Carrillo López; A Ochagavia; J M López Pérez; J Trenado Alvarez; L Pérez; J A Llompарт Pou; F J González de Molina; S Fojón; A Rodríguez Salgado; M C Martínez Díaz; C Royo Villa; F J Romero Bermejo; M Ruíz Bailén; M Arroyo Díez; M Argueso García; J L Fernández Fernández. [Consensus document on ultrasound training in Intensive Care Medicine. Care process, use of the technique and acquisition of professional skills]. *Medicina intensiva / Sociedad Española de Medicina Intensiva y Unidades Coronarias*. 38 - 1, pp. 33 - 73. (Spain): ISSN 1578-6749

Works submitted to national or international seminars, workshops and/or courses

- 1 **Title of the work:** Diagnóstico de Muerte Encefálica
Name of the event: Fonaments en Donació d'Òrgans.
City of event: Terrassa,
Date of event: 01/12/2008
Organising entity: Hospital Mútua de Terrassa **Type of entity:** Healthcare Institutions
- 2 **Title of the work:** Ecografia Fast
Name of the event: Curso anual de Ecocardiografía en Cuidados Intensivos , quirófano y Reanimación.
City of event: Barcelona, Catalonia, Spain
Organising entity: Hospital Universitario Vall d'Hebron **Type of entity:** Healthcare Institutions
- 3 **Title of the work:** Nous criteris de reposició de la volèmia i correcció de la coagulació.
Name of the event: 33 Reunió de la Societat Catalana de Medicina Intensiva i Crítica
City of event: Lleida, Spain
Organising entity: SOCMIC **Type of entity:** Associations and Groups
City organizing entity: Barcelona,

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1 **Committee title:** Junta Directiva. Vocal Metge
Affiliation entity: Societat Catalana Medicina Intensiva
Start date: 2020
- 2 **Committee title:** JunTa Directiva
Affiliation entity: SEMICYUC **Type of entity:** Associations and Groups
City affiliation entity: Madrid, Spain
Start date: 01/07/2018



- 3** **Committee title:** Comite de Farmàcia i Terapèutica
Primary (UNESCO code): 320000 - Medical Science
Affiliation entity: Hospital Mútua de Terrassa **Type of entity:** Healthcare Institutions
City affiliation entity: Terrassa, Catalonia, Spain
Start date: 01/10/2015
- 4** **Committee title:** Grup de Treball de Pacient Politraumàtic i Neurocrític
Primary (UNESCO code): 320000 - Medical Science
Affiliation entity: Acadèmia de Ciències Mèdiques **Type of entity:** Associations and Groups
de Catalunya i de Balears
City affiliation entity: Barcelona, Catalonia, Spain
Start date: 01/09/2015
- 5** **Committee title:** Comité de Seguridad del Paciente
Primary (UNESCO code): 320000 - Medical Science
Affiliation entity: Hospital Mútua de Terrassa **Type of entity:** Healthcare Institutions
City affiliation entity: Terrassa, Catalonia, Spain
Start date: 01/06/2010
- 6** **Committee title:** Comité de Atención al Paciente Politraumático
Primary (UNESCO code): 320000 - Medical Science
Affiliation entity: Hospital Mútua de Terrassa **Type of entity:** Healthcare Institutions
City affiliation entity: terrassa, Catalonia, Spain
Start date: 01/01/2008

Organization of R&D activities

Title of the activity: XXXI Congres de la Societat Catalana de Medicina Intensiva
Type of activity: Congreso Científico **Geographical area:** Regional
Convening entity: Acadèmia de Ciències Mèdiques **Type of entity:** Associations and Groups
de Catalunya i de Balears
City convening entity: Terrassa, Catalonia, Spain
End date: 30/04/2010

Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Department of critical Care Medicine. University of Pittsburgh
City of entity: Pittsburgh, United States of America
Start-End date: 01/04/2008 - 30/06/2008
Goals of the stay: Guest
Provable tasks: Clinical Observer
- 2** **Entity:** Universitat de Barcelona **Type of entity:** University
Faculty, institute or centre: Departamento de Biología Celular
City of entity: Barcelona, Catalonia, Spain
Start-End date: 01/10/2001 - 30/06/2002



Goals of the stay: Beca Colaboración

Provable tasks: Beca de colaboración en Departamentos del MED

Obtained grants and scholarships

- 1 Name of the grant:** Beca de Colaboración en Departamentos
Aims: Beca colaboración
Awarding entity: MINISTERIO DE EDUCACION Y CIENCIA
Conferral date: 01/10/2001
End date: 30/06/2002
Entity where activity was carried out: Universitat de Barcelona
Faculty, institute or centre: Facultat de Medicina. Departament de Biologia Celular
- 2 Name of the grant:** Beca FEEC
Aims: Estancia en Centros Extranjeros
Awarding entity: Fundacion Española del Enfermo Crítico **Type of entity:** Foundation
Conferral date: 01/09/2008
Entity where activity was carried out: o Department of critical Care Medicine. University of Pittsburgh

Scientific societies and professional associations

- 1 Name of the society:** ESC
Affiliation entity: European Society of Cardiology
- 2 Name of the society:** ESICM
Affiliation entity: European Society of Intensive Care Medicine
City affiliation entity: Belgium
- 3 Name of the society:** PTS
Affiliation entity: Panamerican Trauma Society
City affiliation entity: United States of America
- 4 Name of the society:** SCCM
Affiliation entity: Society of Critical Care Medicine **Type of entity:** Associations and Groups
City affiliation entity: United States of America
- 5 Name of the society:** SEMES
Affiliation entity: Sociedad Española de Medicina de Urgencia y Emergencias **Type of entity:** Associations and Groups
City affiliation entity: Madrid, Community of Madrid, Spain
- 6 Name of the society:** SEMICYUC
Affiliation entity: Sociedad Española de Medicina Intensiva, Crítica y Unidades Coronarias **Type of entity:** Associations and Groups
City affiliation entity: Madrid, Community of Madrid, Spain



7 **Name of the society:** SOCMIC

Affiliation entity: Acadèmia de Ciències Mèdiques de Catalunya i de Balears

City affiliation entity: Barcelona, Catalonia, Spain

Type of entity: Associations and Groups