

Thierry Burnouf - Résumé (updated April 20, 2016)

BURNOUF Thierry

PhD, Biochemistry

Citizenship: French

e-mail: thierry@tmu.edu.tw thburnouf@gmail.com

Director and Professor, Graduate Institute of Biomedical Materials and Tissue Engineering, College of Biomedical Engineering, Taipei Medical University, Taipei, Taiwan

Visiting Professor, Sorbonne Paris Cité University - Paris 13 University, “*Biomolecules and experimental therapy*”; “*Chemistry, Structure, Properties of Biomaterials and Therapeutic Agents*”, Paris, France

Consultant/Expert to the **World Health Organization** on blood product safety, plasma for fractionation, contract fractionation programs, animal-derived antisera, improving access to safe blood products to developing countries through transfers of technology.

Member, Special Advisory Board (SAB) to the Ministry of Food and Drug Safety, South Korea.

Special Visiting Scientist: National Council for Scientific and Technological Development; CNPq, Brazil Federal Government, Brazil.

Member of two Working Parties of the International Society of Blood Transfusion: Cellular therapy; Global blood safety.

Volunteer Advisor to the **World Federation of Hemophilia** on blood product safety and manufacturing technologies

Member of Editorial Board: Biologicals (Journal of the International Association of Biologicals); Current Nanoscience; International Journal of Biologicals; Recent Patent in Nanotechnology.

Member: International Society of Blood Transfusion (ISBT); American Association of Blood Banks (AABB); International Alliance for Biological Standardization (IABS), International Society of Thrombosis and Haemostasis (ISTH), World Federation of Hemophilia (WFH)

BIBLIOMETRY

> 200 publications in scientific journals; H-index (Web of Science) = 30; total citations: 3036; RG score: 55.19; RG impact points: 524.2.

FIELDS of SPECIALTY

Regenerative medicine; blood-cell derived microvesicles/nanoparticles; Platelet growth factors for cell therapy; Processing of blood for therapeutic applications; protein purification; viral inactivation and removal; platelet lysates.

EMPLOYMENT HIGHLIGHTS

Taipei Medical University, Taipei, Taiwan (Aug 2008- current)

- Director, Graduate Institute of Biomedical Materials and Tissue Engineering, College of Oral Medicine (from Aug 2013), College of Biomedical Engineering (from August 2015)
- Professor, Graduate Institute of Biomedical Materials and Tissue Engineering, College of Oral Medicine (from Aug 2012)
- Visiting Professor, Graduate Institute of Medical Sciences, College of Medical Sciences and Technology (Aug 2008 - Aug 2012); “Foreign Expert” laureate from the National Science Council (NSC) of Taiwan

Human Protein Process Sciences, Lille, France (Jan 1998-2012)

- Director
- Expert and Consultant for Process and Biological product development (human blood & plasma products, recombinant products, animal-derived antisera); supervises research and development work on biological products;

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Haemonetics Corporation, Boston, Ma., USA (Sept. 1995 - Dec. 1997)

- Vice President, Haemonetics Corporation, Boston, USA
- Director, Haemonetics Plasma product Services (HPPS), a division of Haemonetics SA, International Operations, Nyon, Switzerland
- Member of the International Management Committee
- Reports directly to Haemonetics Corporation co-chairman and President, International Operations

Laboratoire Français du Fractionnement et des Biotechnologies, Paris, France (French National Plasma Fractionation and Biotechnology Laboratory) (June 1994 - Sept. 1995)

- Scientific Director (from January 1995) for the whole organization (Paris and Lille sites) (120 researchers and assistants)
- General Manager of the Lille plasma fractionation plant (until January 1995) (280 employees)
- Member of the Executive Committee
- Member of the International Committee
- Member of the Scientific Committee

Regional Blood Transfusion Center - Lille - CRTS-Lille, France

(Sept. 1986 – June 1994)

- Director (1990), plasma fractionation centre (150 employees)
- Chief of Department (1986), plasma fractionation service
- Member of the Executive Committee

Regional Blood Transfusion Center - Lille - CRTS-Lille, France

(Oct. 1984 - Sept. 1986)

- Chief of Laboratory, Research and Development laboratory

Northern Regional Research Center, USDA, Peoria, Illinois, USA

(May 1982 - October 1984)

- Post-doctoral Research Assistant employed by the University of Nebraska, Lincoln, and based at the Northern Regional Research Centre

EDUCATION

- | | |
|------------|---|
| 1981- 1984 | Post-doctoral research studies in protein biochemistry (Northern Regional Research Center, USDA, Illinois, USA) |
| 1981 | PhD in Biochemistry (Lille University, France)
"Improvement in plant and microbial productions" |
| 1977 | Diplôme d'Etudes Approfondies (Lille University, FRANCE) (Master's degree) |
| 1976 | B.S. in Biology (Lille University, France) <ul style="list-style-type: none">◆ Degree in Biochemistry◆ Degree in Microbiology◆ Degree in Plant Physiology◆ Degree in Plant Biology◆ Degree in Plant pathology◆ Degree in Organic Chemistry |
| 1974 | General Degree (D.U.E.G.) in Biology (Lille University, France) |

PUBLICATIONS and PARTICIPATION TO CONGRESSES

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Over 190 publications, reviews, letters in specialized international scientific journals (Transfusion, Vox Sanguinis, Biologicals, Blood Reviews, Transfusion Medicine Reviews, PLOS ONE, The LANCET, Journal of Chromatography, Transfusion Medicine, Transfusion and Apheresis Science, Theoretical and Applied Genetics, Analytical Biochemistry, New England Journal of Medicine, etc.).

Invited speaker or chairman at the following meetings:

- 2000:
 - World Federation of Hemophilia Forum (Montréal, Canada, April)
 - 50th National Congress of the Brazilian Society of Hematology and Blood Transfusion (Rio de Janeiro, Brazil, May)
 - Australian Society of Blood transfusion Annual Meeting (Perth, Australia, July)
 - Therapeutic Goods Administration, Ministry of Health, Satellite Meeting (Canberra, Australia, August)
 - Penner Conference on Coagulation Factors (Cairo, Egypt, October),
 - 7th European Plasma Fractionation Association / Plasma Protein Therapeutics Association International Regulatory Affairs Symposium (Brussels, Belgium, November)
- 2001:
 - Pan American Health Organization (PAHO/WHO) Plasma Fractionation Program meeting (Brasilia, Brazil, April)
 - Plasma fractionation and Biotech symposium (Malta, May),
 - International Hematology Society meeting (Cairo, Egypt, October),
 - Organizer and Facilitator at the WHO workshop on the quality and safety of plasma biopharmaceutical products for 11 South and Central American countries (Cuba, October).
- 2002:
 - Speaker and Coordinator at a WHO meeting on the organization of plasma collection and plasma fractionation in the world for the visit of an official Chinese delegation (Geneva, Switzerland, June).
 - Plasma working group of WHO within the scope of the Global Collaboration on Blood Safety (Geneva, Switzerland, June)
 - Penner Conference on blood Coagulation (June 2002, Malta)
 - Task group of WHO on viral safety of antivenoms (Sao Paulo, Brazil, October)
 - Workshop on a regulatory guidebook for coagulation factors products – coordinator- (World Federation of Hemophilia, Miami, October).
- 2003:
 - EMRO/WHO regional meeting on blood product safety (Cairo, June),
 - World Federation of Haemophilia Workshop on regulatory issues relating to plasma-derived products (Budapest, Hungary, September 2003),
 - Third Global Forum on the Safety and Supply of Hemophilia Treatment Products (Budapest, Hungary, September),
 - Shenzhen Blood Transfusion Safety Meeting (Shenzhen, China, October),
 - Blood Transfusion Meeting of the Kingdom of Saudi Arabia (Ryad, Saudi Arabia, December).
- 2004:
 - Oral implantology meeting (Taipei, Taiwan, January)
 - Regional Hemophilia Seminar (Mahmoudabad, Iran, April)
 - Henan Province blood Transfusion Meeting (Henan, China, May)
 - Workshop on plasma product nanofiltration (Lisbon, Portugal, November)
 - EBA/EPFA International Blood and Plasma Conference (Amsterdam, Holland, November).
- 2005:
 - Shanghai Institute of Biological Products (Shanghai, China, January)

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- Speaker, International Society of Blood Transfusion, European Regional Meeting (Athens, Greece, July 2005)
 - Speaker, Shenzhen blood Center – American Red Cross Biomedical Services symposium, Shenzhen, October 2005
 - Speaker, World Federation of Hemophilia Global Forum (Montreal, Canada, September 2005)
- 2006:
- Speaker, Hema-Quebec Consensus Conference of plasma self-sufficiency (Montreal, Canada, February 2006)
 - Speaker, Penner coagulation conference (Koweit, May 2006)
 - Facilitator and speaker, Antivenoms production meeting (Sao Paulo, Brazil, June 2006)
 - Chairman and invited speaker, International Society of Blood Transfusion, International Congress (Cape Town, South Africa, Sept. 2006)
 - Facilitator & speaker, World Federation of Hemophilia Regulatory meeting, Cairo, Egypt, Sept 2006.
- 2007:
- Chairman and invited speaker, Congrès Français de la Société Française de Transfusion Sanguine (Tours, France, July 2007)
 - Chairman and invited speaker, Alternatives in Transfusion Medicine (Riga, Latvia, Sept. 2007)
 - Chairman and invited speaker, Congress of the International Association of Biologicals (Sao Paulo, Brazil, Sept. 2007)
 - Invited speaker and Chairman, International Society of Blood Transfusion, Regional Congress (Hanoï, Vietnam, Nov. 2007)
 - Chairman and Invited speaker, The Fourth Transfusion Medicine Course for Arabic Speaking Countries (Emirates, Dec 2007)
 - Reviewer of manuscripts submitted to Transfusion, Vox Sanguinis, Biologicals
- 2008
- Invited speaker & chairman, International Society of Blood Transfusion, International Congress (Macau, China, June. 2008), topics: Collection of plasma and its fractionation
 - Facilitator/Speaker at the WHO Asia-Pacific Workshop on antivenoms (Jakarta, Indonesia, May 2008)
 - Facilitator/Speaker at the WHO Africa-Eastern Mediterranean Workshop on antivenoms (Addis Ababa, Ethiopia, July 2008)
 - Facilitator/Speaker at the World Federation of Hemophilia Regulators' meeting (Kuala Lumpur, Malaysia, October 2008)
 - Reviewer of manuscripts submitted to Transfusion, Vox Sanguinis, Biologicals
- 2009
- Invited speaker & chairman, Member of the Scientific Committee, International Society of Blood Transfusion, Regional Congress (Cairo, Egypt, March 2009), topics: Blood-derived biomaterials
 - Facilitator/Speaker, as volunteer, at the World Federation of Hemophilia workshop for Panama MOH (Panama, August 2009)
 - Invited speaker, Peruvian blood transfusion and hematology meeting (Lima, Sept 9-12)
 - Reviewer of abstracts submitted to ISBT-Nagoya
 - Reviewer of abstracts submitted to ISBT-Cairo
 - Reviewer of manuscripts submitted to Vox Sanguinis, Biologicals, Transfusion Medicine, Nature Protocols
- 2010
- Chairman, International Society of Blood Transfusion (ISBT), International Congress (Berlin, Germany, June 2010), topics: "From bench to patients"
 - Participant to the Expert Committee of Biological Standardization (ECBS) of the World Health Organization (WHO), Geneva, Oct 18-22

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- Contributor to the WHO Guidelines on GMP in Blood establishments.
 - Facilitator/Speaker at the World Federation of Hemophilia Regulators' meeting, South-America, Rio de Janeiro, November 2010
 - Invited guest, International Symposium of Materials on Regenerative Medicine, November 3-5, Zhunan, Taiwan, ROC.
 - Keynote speaker, Chinese National Blood Transfusion Conference, November 4-6, Chengdu, China
 - Reviewer of manuscript submitted to PLoS Neglected Tropical Diseases, Vox Sanguinis, Biologicals; Acta Biomateriala
 - Reviewer of abstracts submitted to ISBT-Berlin
- 2011
- Speaker at the ISBB congress, Yokohama, Japan, Feb 11-13, 2011
 - Speaker at the French Blood Transfusion congress, Lyon, May 2011
 - Chairman and speaker at the International Society of Blood Transfusion, Europe Region, Lisbon, June 2011
 - Reviewer of abstracts submitted to ISBT-Lisbon
 - Invited speaker, International Society of Blood Biomaterials, Taipei, Taiwan, July 2011
 - Invited speaker, National Congress of Plastic Surgery, Taipei, Taiwan, November 2011
 - Invited speaker, International Society of Blood Transfusion, Asia-Pacific Region, Taipei, November 2011; + 1 oral presentation and 1 poster.
 - Reviewer of manuscripts submitted to Plos One, Transfusion, Vox Sanguinis, Cytotechnology, European Journal of Dermatology, Wound Repair & Regeneration, Blood Transfusion
 - Reviewer of abstracts submitted to ISBT-Taipei
- 2012
- Reviewer of abstracts submitted to ISBT-Cancun (July 2012)
 - Chairman, session on "Safe plasma products" at ISBT-Cancun (July 2012)
 - Invited speaker on "plasma fractionation" at ISBT-Cancun (July 2012)
 - Participant to the Expert Committee of Biological Standardization (ECBS) of the World Health Organization (WHO), Geneva, October 15-17.
 - Coordinator and speaker of the European School of Transfusion Medicine course on plasma products, Zagreb, Nov 2012.
 - Reviewers of manuscripts submitted to Wound Healing and Regeneration, Biomateriala, Transfusion, Vox Sanguinis, Biologicals, Platelets, Journal of infectious disease, Proteomics, PLoS One, etc.
- 2013
- Invited speaker, IPFA/PEI (International Plasma Fractionation Association/Paul Ehrlich Institute of Germany), Helsinki, Finland (April 2013)
 - Invited speaker, Cerus Corporation Key Opinion Leader meeting (Budapest, Hungary)
 - Reviewer of abstracts submitted to ISBT Regional Congress Europe-Amsterdam (June 2013)
 - Invited speaker on "Platelet gel biomaterials", ISBT Regional Congress Europe-Amsterdam (June 2013)
 - Honorary Advisor, Speaker, and Panel chairman, BioPlasma World Asia 2013, Bali, Indonesia (September 2013)
 - Speaker WHO Workshop on Blood Regulatory Systems - Building national capacity for improving access to blood products - Johannesburg, 9 – 11 September 2013
 - Participant and Speaker at the Expert Committee of Biological Standardisation, WHO, Geneva (October 2013)
 - Reviewer of abstracts submitted to ISBT Regional Congress Asia-Pacific, Kuala-Lumpur (December 2013)
 - Invited speaker on "New approaches for manufacturing plasma derivatives" ISBT Regional Congress Asia-Pacific, Kuala-Lumpur (December 2013)

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- Speaker on “Combination of autologous platelet gel and skin graft to treat non-healing diabetic lower extremity ulcers” ISBT Regional Congress Asia-Pacific, Kuala-Lumpur (December 2013)
- Reviewers of manuscripts submitted to Vox Sanguinis, PLOs, Transfusion Medicine and Hemotherapy, Wound healing and Regeneration, Regenerative Medicine, Acta Biomaterialia, PLOs Neglected Tropical Diseases, Cytotherapy, etc.

➤ 2014

- Reviewer of abstracts submitted to ISBT International Congress Seoul, South Korea (June 2014)
- Chairperson and Speaker, ISBT International Congress Seoul, South Korea (June 2014)
- Chairman, Scientific Committee, 7th World Congress on Preventive and Regenerative Medicine (WCPRM), Taipei, Taiwan (Nov 4-7, 2014)
- Speaker, Arab Transfusion Medicine Forum: “Platelet-derived biomaterials in regenerative medicine” (Agadir, Morocco, Nov 26-29)
- Reviewers of manuscripts submitted to various journals such as Vox Sanguinis, Transfusion, Biologicals, Cytotherapy, Acta Biomaterialia, Transfusion Medicine, Platelets, etc.

➤ 2015

- Speaker, Taiwan Society of HLA and immunogenetics: “Platelet microparticles in health and diseases” (Taipei, Jan 19)
- Speaker, Blood Transfusion Courses (Biorad, March 2015)
- Scientific selection committee of ISBT, European Region, Congress London, UK (July 2015)
- Moderator and speaker at ISBT, European Region, Congress London, UK (July 2015)
- Invited speaker, Viral safety workshop, Moscow, Russia (Sept 8-10, 2015)
- Invited speaker, Ministry of Science and Technology of Taiwan, Russian-Taiwanese symposium on Nanobiology and Nanomedicine, Russia, Nov 2015
- Invited speaker at ISBT, Asia-Pacific Region, Congress, Bali, Indonesia (November 2015)
- Invited speaker, IPFA workshop of blood safety, Cape Town, South Africa (December 1-2, 2015)
- Reviewers of manuscripts submitted to various journals

➤ 2016

- Invited speaker, IPFA workshop on plasma for fractionation, Taipei, Taiwan (March 8-9, 2016)
- Invited speaker at ISBT, International Congress, Dubai, Emirates (September 2015)
- Reviewers of manuscripts submitted to various journals such as Transfusion, Scientific Reports, Vox Sanguinis, etc.

PATENTS

Inventor of 21 international patent families (European and US patents/ > 300 national patents). Blood biotech, purification of plasma and platelet proteins, virus inactivation/removal procedures, medical devices.

SOCIETIES and NOMINATIONS

- Laureate of a fellowship of the **International Rotary Foundation** (1982) for postdoctoral studies in the USA
- Laureate of a 3-years grant from **National Science Council, Taiwan**, as foreign expert (2009-2011)
- Laureate of a **Special Visiting Scientist** position from the National Council for Scientific and Technological Development; CNPq), Brazil Federal Government (from Sept 2013)
- International Society of Blood Transfusion (ISBT)

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- International Association of Biologicals (IABS)
- International Society of Thrombosis and Haemostasis (ISTH)
- American Association of Blood Banking (AABB)
- World Federation of Hemophilia (WFH)
- Member of the organizing committees or scientific committees of several congresses on blood transfusion or chromatography
- Member of the Editorial Board of “Biologicals”, “Current Nanoscience”, “Recent Patents in Nanosciences” (Bentham), “International Journal of Biologicals”, Frontiers in Immunology.

OTHER PAST OR PRESENT RESPONSIBILITIES

A. World Health Organisation

- Expert and Consultant on human plasma product viral safety, plasma collection, and plasma fractionation (from 2000).
- Temporary advisor to the **Expert Committee of Biological Standardization (ECBS)** (2001, 2002, 2005, 2007, 2010, 2012)
- Consultant on production and safety of animal derived plasma antisera (anti-rabies; -tetanus; -diphtheria; antivenoms) (from 2005- 2011)
- Consultant to PAHO/IPS for the Brazilian plasma fractionation program
- Member of the task force on viral safety of animal plasma derived antivenoms.
- Member of the Committee on Global Collaboration on Blood Safety (GCBS) (2001)
- Member of the drafting group of :
 - Guidelines for viral inactivation and removal procedures of blood and plasma products (2001-2002).
 - WHO Recommendations for the Production, Control, and Regulation of Plasma for Fractionation (2005)
 - WHO guidelines on production, quality control, and regulation of animal derived antivenoms (2010)
 - WHO Guidelines on Good Manufacturing Practices in Blood Establishments (2011)
- Consultant, Transfer of technology of safe blood products to developing countries (2011)
- Co-editor of a book published by the **Regional Office for the Eastern Mediterranean Region (EMRO)**: Plasma Fractionation programmes for developing countries, *Technical aspects and infrastructural requirements* (1999-2000).
- **Expert and Rapporteur of the WHO project** "Access to safe blood products in developing countries through technology transfers" (October 2012)

B. World Federation of Hemophilia

- Member of the “Cryo safety group” committee of the (2002 - 2004)
- Facilitator at several WFH regulatory workshops (Miami, Budapest, Cairo)

C. Council of Europe

- Expert on
 - ◇ Quality assurance of plasma for fractionation (1993-1994)
 - ◇ Organization of plasma fractionation in Central and Eastern Europe (1993-1994)

D. European Commission DG V (Luxembourg)

- ◇ Rapporteur of the Interim Blood Safety Working Party « Safety of blood and blood products in Europe » (1994-1995)
- ◇ Public awareness project - Blood and Blood Products (1996)

E. World Bank

- Consultant: Evaluation of the feasibility of a plasma fractionation project in Malaysia based on contract manufacturing by CSL-Australia and local production (1992)

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F. French National Pharmacopeia

- Expert to the Commission (from 1992)

G. European School of Transfusion Medicine

- Expert and Professor for the "**European School of Transfusion Medecine**"(1994-1996). Coordinator of educational courses on production and clinical uses of plasma products (1995)
- Coordinator and Professor for the "**European School of Transfusion Medecine**"(2012) on clinical use of plasma products (2012)

H. European Association of Plasma Fractionators (EPFA)

- Member of the General Assembly (1992-1995)
- Member of working groups on Quality Assurance and Good Manufacturing Practices in viral inactivation (1994)

I. Agence Française de valorisation de la recherche (ANVAR)

- Expert on biotechnology projects (1994)

SPECIAL TRAINING PROGRAMS

- Improving productivity, quality and compliance in the pharmaceutical and allied industries. Center for Professional Advancement, Amsterdam, Holland (Feb. 19-21, 1990)
- Maximizing the Efficiency of Drug Development. Management Center Europe, Brussels, Belgium (Feb 20-21, 1995)
- Finance and Accounting for the Non-Financial Manager, The Wharton School, University of Pennsylvania, Philadelphia, USA (January 12-17, 1997)

LANGUAGES

- **Fluent French**
- **Fluent English**
- **Good Spanish**

ORIGINAL PAPERS, REVIEWS, AND BOOK CHAPTERS

***: corresponding author**

Submitted

1. Weng WJ, Husebekk A., Skogen B, Lin LT, **Burnouf T***. Chromatographically purified, virally inactivated, anti-human platelet antigen-1a immunoglobulin G. *PLOS One*
2. **Burnouf T***, Conton B, Dye J. Evaluation of Convalescent Plasma for Ebola Virus Disease in Guinea. *New England Journal of Medicine*

2016

3. Gouel F, Do Van B, Chou ML, Jonneaux A, Moreau C, Bordet R, **Burnouf T**, Devedjian JC, Devos D* The protective effect of human platelet lysate in models of neurodegenerative disease: involvement of the Akt and MEK pathways. *Tissue Engineering and Regenerative Medicine* (accepted)
4. Kao YC, Bailey A, Sammiger B, Tanimoto J, **Burnouf T***. Removal process of prion and parvovirus from human platelet lysates used as clinical-grade supplement for ex vivo cell expansion. *Cytotherapy* (accepted)
5. Tseng CL, Chen ZY, Renn TY, Hsiao SH, **Burnouf T***. Solvent/detergent virally inactivated serum eye drops restore healthy ocular epithelium in a rabbit model of dry-eye syndrome. *PLOS One* (accepted)
6. Hsieh YT, Mullin L, Greenhalgh P, Cunningham M, Goodrich E, Shea J, Youssef E, **Burnouf T***. Single-use technology for solvent/detergent virus inactivation of industrial plasma products. *Transfusion* (in press).
7. Chung CY, Liu CH, **Burnouf T**, Wang GH, Chang SP, Jassey A, Tai CJ, Tai CJ, Huang CJ, Richardson CD, Yen MH, Lin CC, Lin LT. Activity-based and fraction-guided analysis of *Phyllanthus urinaria* identifies loliolide as a potent inhibitor of hepatitis C virus entry. *Antiviral Research* (in press).
8. Wu YW, Goubran HA, Seghatchian J, **Burnouf T***. Smart blood cells- and microvesicles-based Trojan Horse drug delivery: Merging blood transfusion and biomedical engineering expertises in the field of nanomedicine. *Transfusion & Apheresis Science*, 2016 (in press).
9. Goubran HA*, Elemany M, Radosevich M, Seghatchian J, Em-Ekiaby M, **Burnouf T***. Impact of transfusion on cancer growth and outcome. *Cancer growth and Metastasis*, 2016, 9: 1-9.
10. Seghatchian J*, Espinosa A, **Burnouf T**. Quality, safety, and sustained therapeutic efficacy of blood-derived serum eye drops to treat dry eye syndrome: R&D road map for future progress. *Transfusion & Apheresis Science*, 2016; <http://dx.doi.org/10.1016/j.transci.2016.01.023>.
11. Seghatchian J*, Espinosa A, **Burnouf T**. Commentary on technical specifications and safety requirements of serum eye drops: Keeping a close eye on the content in cytokines. *Transfusion*

& *Apheresis Science*, 2016; <http://dx.doi.org/10.1016/j.transci.2016.01.024>

12. **Burnouf T**, Strunk D*, Koh M, Schallmoser K*. Human platelet lysate: replacing fetal bovine serum as a gold standard for human cell propagation? *Biomaterials* 2016; 76:371-87.

2015

13. Guttierrez J*, **Burnouf T***, Harrison RA, Calvete JJ, Brown N, Jensen SD, Warrell DA, Williams DJ. The value of incorporating social research in the global struggle against snakebite envenoming. *PLOS Neglected Tropical Diseases*, 2015; 9: e0003960.
14. **Burnouf T***. Blood-cell derived microparticles and nanoparticles: multifaceted topics for research. Guest Editorial. *Transfusion & Apheresis Science*, 2015; 53: 106-107.
15. Seghatchian J*, **Burnouf T**. Blood cell-derived microvesicles with potential pathogenic roles in therapeutic blood components and specialized diagnostic tools in diseases. *Transfusion & Apheresis Science*, 2015; 53: 108-109.
16. **Burnouf T***, Chou ML, Goubran H, Cognasse F, Garraud O, Seghatchian J. An overview of the role of microparticles/microvesicles in blood components: Are they clinically beneficial or harmful? *Transfusion & Apheresis Science* 2015; 53: 137-145.
17. Goubran H, Sabry W, Kotb R, Seghatchian J, **Burnouf T*** Platelet Microparticles and Cancer: An intimate cross-talk. *Transfusion & Apheresis Science* 2015; 53: 168-172.
18. Cognasse F, Hamzeh-Cognasse H, Laradi S, Chou ML, Seghatchian J, **Burnouf T**, Boulanger C, Garraud O, Amabile N. The role of microparticles in inflammation and transfusion: a concise review. *Transfusion & Apheresis Science* 2015; 53: 159-167.
19. Lin HC, Chang HW, Hsiao SH, Chou ML, Seghatchian J, **Burnouf T***. THP-1 monocytic cell aggregation and release of pro-coagulant tissue factor-expressing microparticles *in vitro*. *Transfusion & Apheresis Science* 2015; 53: 246-252.
20. Tseng CL, Seghatchian J, **Burnouf T.*** Animal models to assess the therapeutic efficacy of human serum and serum-converted platelet lysates for dry eye syndrome: Seeing is believing. *Transfusion & Apheresis Science*, 2015; 53:95-98.
21. Chou ML, Lin LT, Devos D, **Burnouf T***. Nanofiltration to remove microparticles and decrease the thrombogenicity of plasma: in vitro assessment. *Transfusion* 2015; 55: 2433-2444.
22. Renn TY, Kao YH, Wang CC, **Burnouf T***. Platelet lysates used in regenerative medicine exert variable anti-inflammatory effects on macrophages *in vitro*. *Vox Sanguinis* 2015; 109, 138–147
23. Chou ML, Bailey A, Avory T, Tanimoto J, **Burnouf T***. Removal of transmissible spongiform encephalopathy prion from large volumes of cell culture media supplemented with fetal bovine serum by using hollow fiber anion-exchange membrane chromatography. *PLOS ONE* April 13, 2015, DOI: 10.1371/journal.pone.0122300
24. Goubran HA*, **Burnouf T***, Stawik J, Segatchian J*. Platelet microparticles: A sensitive physiological “fine tuning” balancing factor in health and disease. *Transfusion & Apheresis Science* 2015; 52:12-18.
25. Chou ML, **Burnouf T**, Chang SP, Hung TC, Lin CC, Richardson CD, Lin LT*. TnBP/Triton X-45 Treatment of Plasma for Transfusion Efficiently Inactivates Hepatitis C Virus. *PLOS ONE*, Feb 6, 2015, DOI: 10.1371/journal.pone.0117800.

26. El-Ekiaby M, Vargas M, Sayed M, Gorgy G, Goubran H, Radosevic M, **Burnouf T***. Minipool Caprylic Acid Fractionation of Plasma Using Disposable Equipment: A Practical Method to Enhance Immunoglobulin Supply in Developing Countries. *PLOS Neglected Tropical Diseases*, Feb 26, 2015. DOI: 10.1371/journal.pntd.0003501
27. Vargas M, Segura A, Wu YW, Herrera M, Chou ML, Villalta M, Leon G, **Burnouf T***. Human plasma-derived immunoglobulin G fractionated by an aqueous two-phase system, caprylic acid precipitation, and membrane chromatography has a high purity level and is free of detectable *in vitro* thrombogenic activity. *Vox Sanguinis* 2015; 108:166-177.
28. Shih DTB, **Burnouf T***. Human blood platelet growth factors supplements for *ex vivo* stem cell expansion (invited review). *New Biotechnology*, 2015;32: 199-211.

2014

29. **Burnouf T***, Emmanuel J, Mbanya D, El-Ekiaby M, Murphy W, Field S, Allain JP. Ebola: a call for blood transfusion strategy in sub-Saharan Africa. *LANCET* 2014;384:1347-1348
30. **Burnouf T***, Seghatchian J*. Ebola convalescent blood products: where we are now and where we may need to go. *Transfusion & Apheresis Science* 2014;51:120–125.
31. **Burnouf T***, Seghatchian J*. Go/no go in plasma fractionation in world's emerging economies: still a question 70 years after the development of the Cohn fractionation process. *Transfusion & Apheresis Science* 2014; 51 :113-119.
32. **Burnouf T***, Seghatchian J*, Goubran HA. Multifaceted regenerative lives of expired platelets in the second decade of the 21st century. *Transfusion & Apheresis Science* 2014; 51:107-112
33. Germishuizen WA, Gyure DC, Stubbings D, **Burnouf T***. Quantifying the thrombogenic potential of human plasma-derived immunoglobulin products. *Biologicals*; 2014;42:260-270
34. Chou ML, **Burnouf T****, Wang TJ*. Ex vivo expansion of bovine corneal endothelial cells in xeno-free medium supplemented with platelet releasate. *PLOS ONE*, 2014 ;9 : e99145
35. **Burnouf T***. New approaches for manufacturing plasma derivatives. *ISBT Science Series* 2014;9:160–167
36. **Burnouf T***, Goubran HA*, Chou ML, Devos, D, Radosevic M. Platelet microparticles: detection and assessment of paradoxical roles in diseases and tissue regeneration. *Blood Reviews*. 28 (2014) 155–166
37. Goubran HA*, Stakiw J, Radosevich M, **Burnouf T.*** Platelet effects on tumor growth. *Seminars in Oncology*, 2014 41:359-369
38. Goubran HA*, Kotb R, Stakiw J, Emar M, **Burnouf T**. Regulation of tumor growth and metastasis: the role of tumor milieu. *Cancer growth and metastasis* 2014;7 9–18
39. Gutiérrez JM*, **Burnouf T***, Harrison RA, Calvete JJ, Kuch U, Warrell DA, William DJ. A multi-component strategy to improve the availability of effective and safe antivenom immunoglobulins for treating snakebite envenoming. *Bulletin of the World Health Organization* 2014;92:526–532
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