

CURRICULUM VITAE

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PERSONAL

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Citizenship : Swiss / Italian

Languages : French, English, German, Italian, Modern Greek

EDUCATION AND POST-GRAD TRAINING

1988 Visiting scientist
Department of Immunology
Children's Hospital
Harvard Medical School, Boston, USA

1984 - 1986 Research Fellow
Department of Arthritis
Massachusetts General Hospital, Boston, USA
Harvard School of Public Health, Boston, USA

1983 - 1984 Chief Scientific Assistant
Department of Pneumology
University Hospital, Geneva, Switzerland

1981 - 1983 Chief Clinical Assistant
Department of Pneumology
University Hospital, Geneva, Switzerland

1980 - 1981 Assistant
Department of Nephrology
University of Louvain, Brussels, Belgium

1977 - 1980 Internship
Department of Internal Medicine and Pneumology
University Hospital, Geneva, Switzerland

1976 Doctor of Medicine

BOARD CERTIFICATION

1982 – present Swiss Board of Internal Medicine, Pulmonary, and Immunology and Allergy

EXPERIENCE

2000 - present Owner, co-director
Alchimie Forever, Geneva, Switzerland

1997 - present President
Forever Laser Institut, Geneva, Switzerland

1991 - present Owner, director
Analix Forever Gallery, Geneva, Switzerland

1999 - 2000 Research Director
INSERM U332
Cochin Institute of Molecular Genetics, Paris, France

1994 - 2000 Coordinator
Environment & Health Program
University of Geneva, Switzerland

1994 - 1999 Scientific Director
Laboratory of Respiratory Physiology
Cochin Faculty (INSERM)
Paris V University, Paris, France

1987 - 1994 Director of Allergy Unit
Department of Immunology and Allergology
University Hospital, Geneva, Switzerland

1986 - 1988 Associate Professor
Pulmonary Department
University Hospital, Geneva, Switzerland

CONSULTING ACTIVITIES

1996 - 2000 Consultant
Education and research ministry
Tokushima University, Kyoto, Japan

1999 Consultant
Synthelabo Research - Sanofi
Paris, France

1986-1990 Consultant
National Institute for Health
Grant No 109-40-4343
Mechanisms of ischemic injury and repair

POLITICAL ACTIVITIES

1999 - 2003 Member of National Parliament
Switzerland

1996 - 1999 President
Think Tank of the Swiss liberal party (LOGOS)
Geneva, Switzerland

1993 - 1996 Deputy
Canton of Geneva, Switzerland

1993 - 1996 Municipal counselor
City of Geneva, Switzerland

PRIZES

2005 Prix de la Meilleure Lettre de Lecteur
Presse Française

1989 Fernand Tissot Prize
University of Geneva, Switzerland

1987 Philippe Bordier Prize
France

MEMBERSHIP OF PROFESSIONAL AND OTHER ORGANIZATIONS

Cell Stress Society International
New York Academy of Sciences
Association of Women in Science
Swiss Association of Women Doctors
Academic Society of Geneva University
Swiss Association of Women in Liberal and Commercial
Professions
Career Women's Forum

EDITORIAL COMMITTEE

1998 – present Reviews in Environmental Health

BIBLIOGRAPHY

Books

- 2012 Polla B
IN IT, Ali Kazma – Paul Ardenne
- 2012 Collectif sous la direction de Barbara Polla
Noir Clair dans tout l'univers, Editions la Muette
- 2012 Polla B
Tout à fait femme, Editions Odile Jacob
France, 300pp
- 2011 Polla B, Ardenne P
Jacques Coulais Pictor Maximus, Editions Take 5
- 2011 Polla B, Ardenne P
Architecture émotionnelle, Matière à penser, Editions la Muette
Belgium, 191pp
- 2010 Polla B
Victoire, Editions l'Age d'Homme
Switzerland, 120pp
- 2010 Polla B, Ardenne P
Peintures, Please pay attention please, Editions La Muette
Belgium, 168pp
- 2009 Polla B
Kris Van Assche, Amor o muerte, Editions l'Age d'Homme
Switzerland, 156pp
- 2008 Polla B
A toi bien sûr, Editions l'Age d'Homme
Switzerland, 120pp
- 2008 Polla B, Ardenne P
Working Men, le travail dans l'art contemporain, Editions Que
Belgium, 159pp
- 2008 Polla B, Bruciati A, Colombo P, del Pesco J, Ardenne P.
Andrea Mastrovito, Tigres de Papier, Editions Monografik
Switzerland, 130pp
- 2007 Polla B
Handicap, entre différence et ressemblance, Editions Favre,
Switzerland, 109 pp.
- 2005 Polla B
Les Hommes, ce qui les rend beaux, Editions Favre, Switzerland, 159
pp.

- 2004 Polla B, Perez P
Vocation Créateurs, Editions du Tricorne, Switzerland, 191 pp.
- 2003 Polla B
Etreinte, Editions de l'Aire, Switzerland, 85 pp.
- Polla B
La Nécessité Libérale, Editions de l'Aire, Switzerland 115 pp.
- 1998 Russo-Marie F. Pelletier A. Polla BS. eds.
Inflammation, Médecine/Sciences, John Libbey Eurotext, 565 pp.
- 1996 Feige U. Morimoto RI. Yahara I. Polla BS. eds.
Stress-inducible cellular responses, Birkhäuser Verlag (Basel, Boston, Berlin) 492 pp.
- 1994 Polla BS. Zahm O. Polla LL.
Incertaine Identité, Georg Editeur, Switzerland, 135 pp.
- 1993 Polla BS. Dusser D. eds.
Asthme et allergie, Med Hyg, Switzerland, 188 pp.

Reviews and textbook chapters

- 2011 Pouillot A, Polla LL, Tacchini P, Neequaye A, Polla AS, Polla BS.
Natural antioxidants and their effects on the skin
In : Formulating, Packaging and Marketing of Natural Cosmetic Products, John Wiley, 239-257, 2011.
- 2009 Pouillot A, Polla BS
Cellules souches: implications pour la peau
Journal de Médecine Esthétique et Chirurgie Dermatologique, 2009, 143 :147-150
- 2009 Pouillot A, Polla LL, Polla BS
Compte-rendu du colloque de la Société Française de Cosmétologie : actualités et futur : la peau et son vieillissement – données récentes
Journal de Médecine Esthétique et Chirurgie Dermatologique, 2009, 142 :79-83
- 2009 Pouillot A, Polla BS, Polla AS
REACH : impact on the US cosmetics industry ?
Journal of Cosmetic Dermatology, 2009, 8:3-7
- 2008 Pouillot A, Polla BS
REACH : Va-t-il changer l'industrie cosmétique ?
Biofutur, 2008, 293 :52-55
- 2008 Pouillot A, Dayan N, Polla AS, Polla LL, Polla BS

- The stratum corneum : a double paradox*
Journal of Cosmetic Dermatology, 2008, 7:143-148
- 2007 Polla BS, Polla AS, Pouillot A, Polla LL
Quand la limite inférieure est celle à atteindre: l'exemple du fer
Biofutur, 2007, 274 :32-35
- 2007 Polla LL, Pouillot A, Polla BS, Polla AS
Présent et futur des antioxydants dans la prévention du vieillissement cutané
Journal de Médecine Esthétique et Chirurgie Dermatologique, 2007, 135 :173-178
- 2006 Pouillot A. Polla AS. Polla BS.
Conservateurs en cosmétologie: mise au point sur les Parabènes
Journal de Médecine Esthétique et Chirurgie Dermatologique, 2006, 131: 187-190
- 2001 Polla BS. Mariethoz E.
Demain, grand-mère, tu auras cent-vingt ans!
In : La santé au risque du marché, Incertitudes à l'aube du XXI^e siècle. Nouveaux Cahiers de l'IUED, Paris, 11: pp 278-292, 2001
- 2000 Pinot F. Kreps SE. Bachelet M. Hainaut P. Bakonyi M. Polla BS.
Cadmium in the environment: sources, mechanisms of biotoxicity, and biomarkers.
Rev Env Health. 15: 299-323, 2000.
- Mariethoz E. Kreps S. Schneider J. Polla BS.
Des écogènes à l'écogestion: le cas de l'eau.
In: L'eau, de la cellule au paysage. Stanislas W. ed. Collection environnement. Elsevier, Paris, Amsterdam, New York, pp 105-114, 2000.
- 1999 Mallouk Y. Vayssier-Taussat M. Bonventre JV. Polla BS.
Heat shock protein 70 and ATP as partners in cell homeostasis.
Int J Mol Med. 4:463-474, 1999.
- Mariethoz E. Spertini F. Lacroix S. Hogendeijk S. Bakonyi M. Polla BS.
Allergy and the environment: A meeting report.
Rev Env Health. 14: 63-78, 1999.
- Bachelet M. Multhoff G. Vignola AM. Himeno K. Polla BS.
Heat shock proteins in inflammation and immunity.
In: Stress proteins, Handbook of experimental pathology. Role of stress proteins in specific cell types. Latchman DS. ed, 136, 283-303, 1999.
- 1998 Dall'Ava J. Polla BS.
Signaux initiateurs et évolutifs de la réaction inflammatoire.
In: Inflammation, Russo-Marie F. Pelletier A. Polla BS. eds,

Médecine/Sciences, John Libbey, 133-141, 1998.

Polla BS. Meng X. Catelli MG.
Protéines de stress et inflammation.
In: Inflammation, Russo-Marie F. Pelletier A. Polla BS. eds,
Médecine/Sciences, John Libbey, 481-491, 1998.

Polla BS. Cronje M. Bornman L.
Stress symposium in Johannesburg: plants versus humans.
Cell Stress & Chap, 3, 143-146, 1998.

El Yaagoubi A. Mariethoz E. Jacquier-Sarling MR. Polla BS.
Redox regulation of heat shock protein expression, and protective effects against oxidative stress.
In: Oxidative stress in cancer, AIDS and neurodegenerative diseases.
Montagnier L. Olivier R. Pasquier C. eds. Marcel Dekker, New York, Basel, Hong Kong. 113-124, 1998.

Polla BS. Bachelet M. Elia G. Santoro MG.
Stress proteins in inflammation.
In: Stress of life, from molecules to man. N.Y. Acad. Sci., 851: 75-85, 1998.

Bachelet M. Adrie C. Polla BS.
Macrophages and heat shock proteins.
Immunol Res. 149: 727-732, 1998.

Mariethoz E. Richard MJ. Polla LL. Dall'Ava J. Polla BS.
Oxidant / antioxidant imbalance in skin aging: environmental and adaptative factors.
Rev Env Health. 13: 147-168, 1998.

Vayssier M. Polla BS.
Heat shock proteins chaperoning life and death.
Cell Stress & Chap. 3:221-227, 1998.

1997

Polla BS. Durand P. Bachelet M. Walti H. Dall'Ava J.
Les protéines de stress: un nouveau paradigme de protection cellulaire.
In: Progrès en Néonatalogie 17, p1-7, J.P. Relier ed, Karger, 1997.

Favatier F. Bornman L. Hightower LE. Gunther E. Polla BS.
Variation in hsp gene expression and Hsp polymorphism: do they contribute to differential disease susceptibility and stress tolerance?
Cell Stress & Chap. 2, 141-155, 1997.

Kreps SE. Banzet N. Christiani DC. Polla BS.
Molecular biomarkers for early responses to environmental stressors: implications for risk assessment and public health.
Rev. Env. Health, 12, 261-280, 1997.

1996

Christie P. Polla BS.

Heat shock proteins in eosinophilic inflammation.
In: Stress proteins in medicine, Van Eden W. Young D. eds., Marcel Dekker Inc. (New York, Basel, Hong Kong) 30, 479-493, 1996.

Storz G. Polla BS.
Transcriptional regulators of oxidative stress-inducible genes in prokaryotes and eukaryotes.
In: Stress-inducible cellular responses, Feige U. Morimoto RI. Yahara I. Polla BS eds., BirkhäuserVerlag (Basel, Boston, Berlin) 239-254, 1996.

Bornman L. Polla BS.
Heat shock proteins in Duchenne's muscular dystrophy and other muscular diseases.
In: Stress proteins in medicine, Van Eden W. Young D. eds., Marcel Dekker Inc. (New York, Basel, Hong Kong) 30, 479-493, 1996.

Barazzone C. Christie P. Polla BS.
Heat shock proteins in the cell defence mechanisms of the lung.
In: Environmental Impact on the airways: from injury to repair. Chretien J. Dusser D. Lenfant C. eds., Marcel Dekker Inc. (New York, Basel, Hong Kong). Lung biology in health and disease, 93, 263-284, 1996.

Polla BS. Cossarizza A.
Stress proteins in inflammation.
In: Stress-inducible cellular responses, Feige U. Morimoto RI. Yahara I. Polla BS. eds., BirkhäuserVerlag (Basel, Boston, Berlin) 375-392, 1996.

Favatier F. Polla BS.
Protéines de stress et vieillissement.
In: L'Année gérontologique. Vellas P. Albarede JL. Serdi GPJ. eds, (Paris) 10, 217-224, 1996.

1995
Polla BS, Mariethoz E, Hubert D, Barazonne C.
Heat shock proteins in host-pathogen interactions: implications for cystic fibrosis.
Trends Microbiol. 3: 392-396, 1995.

Fuller K. Polla BS.
Molecular regulation of the heat shock/stress response: a nephrologists' perspective.
In: Molecular Nephrology: Kidney function in health and disease. Schlondorff Q. Bonventre JV. eds., Marcel Dekker, Inc. (New York, Basel, Hong Kong) 605-616, 1995.

1994
Jolliet P. Slosman DO. Polla BS.
Heat shock proteins in critical illness: markers of cellular stress or more?

In: Yearbook of Intensive Care and Emergency Medicine, J.L. Vincent ed, Berlin, Springer Verlag, 24-34, 1994.

Polla BS. Mariethoz BS. Kantengwa S.
Differential regulation of heat shock proteins and heme oxygenase during phagocytosis.

In: Trace elements and free radicals in oxidative diseases. Favier A. Neve J. Faure P, eds. AOCS Press (Champaign, Illinois),12-19, 1994.

Perin Minisini M. Richard MJ. Polla BS.
Radicaux libres de l'oxygène: rôle pathogénique et cibles thérapeutiques dans l'athérosclérose.
Sang Thrombose Vaisseaux. 6, 321-329, 1994.

Lovis C. Mach F. Donati YRA. Bonventre JV. Polla BS.
Heat shock proteins and the kidney.
Renal Failure. 16(2), 179-192, 1994.

Feige U. Polla BS.
Hsp 70 - a multi-gene, multi-structure, multi-function family with potential clinical applications.
In : Heat shock proteins: the hsp70 family. Feige U. Polla BS. eds, Experientia. 50: 979-986, 1994.

Jacquier-Sarlin MR. Fuller K. Dinh-Xuan AT. Richard MJ. Polla BS.
Protective effects of HSPs in inflammation.
In : Heat shock proteins: the hsp70 family. Feige U. Polla BS. eds, Experientia. 50: 1031-1038, 1994.

1993

Polla BS. Kantengwa S.
Poumon et protéines de stress.
Documents pneumologiques, Glossaire de la recherche, 6, March 1993.

Polla BS. Perin M. Pizurki L. Paladi S. Kantengwa S.
Differential induction and regulation of stress proteins during phagocytosis.
Journal of UOEH. 15, suppl. 20 March, 198-205, 1993.

Polla BS. Perin M. Pizurki L.
Regulation and functions of stress proteins in allergy and inflammation.
Clin Exp Allergy. 23, 548-556, 1993.

Polla BS. Bornman L. Perin M.
Heat shock proteins, oxidative stress and atherosclerosis.
Biologie prospective. M.M. Galteau, J. Henny. G. Siest, eds, John Libbey Eurotext. Paris, 223-231, 1993.

1992

Polla BS. Perin M.
Heat shock proteins in inflammation and allergy.
In: Advances in Allergology and Clinical Immunology, Proceedings

of the XVth Congress of the European Academy of Allergology and Clinical Immunology, Ph. Godard, J. Bousquet and F.B. Michel, eds, 323-329, 1992.

Healy AM. Mariethoz E. Pizurki L. Polla BS.
Heat shock proteins in cellular defense mechanisms and immunity.
New York Acad Sci. 663, 319-331, 1992.

1991

Polla BS. Kantengwa S.
Heat shock proteins and inflammation.
Current Topics in Microbiol and Immunol. 167, 93-104, 1991.

Polla BS. Maridonneau-Parinin I. Donati YRA.
Oxygen free radicals in inflammation and allergy.
Allergy and Clin Immunol News. 3, No2, 59-62, 1991.

Kantengwa S. Donati YRA. Clerget M. Maridonneau-Parini I. Sinclair F. Mariethoz E. Perin M. Rees ADM. Slosman DO. Polla BS.
Heat shock proteins: an autoprotective mechanism for inflammatory cells?
Sem Immunol. 3, 49-56, 1991.

Polla BS.
The heat shock response in human phagocytes.
Immunol Letters. 30, 159-164, 1991.

Polla BS. Mili N. Kantengwa S.
Heat shock and oxidative injury in human cells.
In: Heat Shock, B. Maresca & S. Lindquist, eds, Springer Verlag, 279-290, 1991.

1987

Polla BS. Healy AM. Wojno WC. Krane SM.
Analysis of the heat shock response in human and porcine cells: effects of 1,25-dihydroxyvitamin D3.
In: Calcium regulation and bone metabolism: basic and clinical aspects (vol. 9), Cohn, D.V., Martin, T.J., Meunier, P.J., eds, Elsevier Science Publishers BV, Amsterdam, 485-490, 1987.

1986

Krane SM. Amento EP. Goldring MB. Goldring SR. Stephenson ML. Polla BS. Bhan AK. Kurnick JT.
Cellular interaction and matrix destruction during inflammatory processes within the joints.
In: Articular cartilage biochemistry, Kuettner K., et al., eds, Raven Press, New York, 1413-422, 1986.

Journal publications

2007

Polla BS. Gabert F. Peyrusse B. Sarlin M.
Increased proteolysis of diphtheria toxin by human monocytes after heat shock: a subsidiary role for hsp70 in antigen processing.

Immunology, In Press.

- 2003
Polla AS. Polla LL. Polla BS.
Iron as the malignant spirit in successful ageing.
Ageing Res Rev. 2(1):25-37, Jan 2003.
- 2002
Bachelet M. Richard MJ. Francois D. Polla BS.
Mitochondrial alterations precede Bordetella pertussis-induced apoptosis.
Immunol and Medical Microbiol. 32:125-131, 2002.
- Bachelet M. Pinot F. Polla RI. Francois D. Richard MJ. Vayssier-Taussat M. Polla BS.
Toxicity of cadmium in tobacco smoke : Protection by antioxidants and chelating resins.
Free Radical Res. 36(1):99-106, 2002.
- Thomas G. Souil E. Richard MJ. Saunier B. Polla BS. Bachelet M.
Hyperthermia assists survival of astrocytes from oxidative-mediated necrotic cell death.
Cellular and Molecular Biol. 48(2): 191-98, 2002.
- Bachelet M. Marchand F. Souil E. Francois D. Mariethoz E. Weyer A. Polla BS.
Expression and localization of heat shock proteins in rat basophilic leukemia cells: differential modulation by degranulation, thermal or oxidative stress.
Allergy. 57:791-97, 2002.
- Vayssier-Taussat M. Kreps SE. Adrie C. Dall'Ava J. Christiani D. Polla BS.
Mitochondrial membrane potential: A novel biomarker of oxidative environmental stress.
Env. Health Perspectives. 110(3):301-05, March 2002.
- 2001
Souil E. Capon A. Mordon S. Dinh-Xuan AT. Polla BS. Bachelet M.
Treatment with 815-nm diode laser induces long-lasting expression of 72-kDa heat shock protein in normal rat skin.
British J Dermatol. 144: 1-8, 2001.
- Favatier F. Polla BS.
Tobacco-smoke induced human haem-oxygenase-1 gene expression: Role of distinct transcription factors and reactive oxygen intermediates.
Biochem J. 353: 475-482, 2001.
- Aron Y. Vayssier-Taussat M. Camili T. Aron Y. Meplan C. Hainaut P. Polla BS. Wechsler B.
Effects of tobacco smoke and benzo(a)pyrene on human endothelial cell and monocyte stress response.
Am J Physiol Heart Circ Physiol. 280: H1293-H1300, 2001.

Vayssier-Taussat M. Polla BS.
Geranylgeranylacetone protects human monocytes from mitochondrial membrane depolarization independently of Hsp70 expression.
CMLS. 58: 1522-1527, 2001.

Adrie C. Bachelet M. Vayssier-Taussat M. Russo-Marie F. Bouchaert I. Adib-Conquy M. Cavaillon JM. Pinsky M. Dhainaut JF. Polla BS.
Mitochondrial membrane potential and apoptosis in peripheral blood monocytes in severe human sepsis.
Am J Respir Crit Care Med. 164: 389-395, 2001.

2000

Durand P. Bachelet M. Brunet F. Richard MJ. Dhainaut JF. Dall'Ava J. Polla BS.
Inducibility of the 70kD heat shock protein in peripheral blood monocytes is decreased in human acute respiratory distress syndrome and recovers over time.
Am J Resp Crit Care Med. 161: 286-292, 2000.

Pinot F. Walti HP. Haagsman HP. Polla BS. Bachelet M.
Inhibition of cyclic AMP accumulation by a modified natural porcine surfactant in human monocytes: Evidence for a membrane-controlled mechanism.
Am J Physiol Lung Cell Mol Physiol. 278: L99-L104, 2000.

Njamkepo E. Pinot F. Francois F. Guiso N. Polla BS. Bachelet M.
Adaptative responses of human monocytes infected by Bordetella pertussis: The role of adenylate cyclase hemolysin.
J Cell Physiol. 183: 91-99, 2000.

Adrie C. Richter R. Bachelet M. Banzet N. Francois D. Dinh-Xuan AT. Dhainaut JF. Polla BS. Richard MJ.
Contrasting effects of NO and peroxynitrites on HSP70 expression and apoptosis in human monocytes.
Am J Physiol. 279: C452-C460, 2000.

Mariethoz E. Polla BS. Gonzalez M. Polla LL.
Treatment of facial telangiectasia: A novel application of flashlamp-pumped dye lasers.
J Dermatol Treatment. 11: 181-184, 2000.

Boshoff T. Lombard F. Eiselen R. Bornman JJ. Bachelet M. Polla BS. Bornman L.
Differential basal synthesis of Hsp70/Hsc70 contributes to interindividual variation in Hsp70/Hsc70 inducibility.
Cell Mol Life Sci. 57: 1317-1325, 2000.

1999

Pinont F. Bachelet M. Francois D. Polla BS. Walti H.
Modified natural porcine surfactant modulates tobacco-smoke induced stress response in human monocytes.
Life Sciences. 64: 125-134, 1999.

Aron Y. Busson M. Polla BS. Dusser D. Lockhart A. Swierczewski E. Favatier F.
Analysis of hsp70 gene polymorphism in allergic asthma.
Allergy. 54: 165-170, 1999.

Kreps SE. Mariethoz E. Bakonyi M. Polla BS.
Effects of ageing populations on individual and global sustainable development: A biodemographical perspective.
Int J Sustain Dev World Ecol. 6: 1-13, 1999.

Polla BS.
Therapy by taking away : the case of iron.
Biochem Pharmacol. 57: 1345-1349, 1999.

Aron Y. Polla BS. Bienvenu T. Dusser D. Dall'Ava J. Hubert D.
HLA-DR class II polymorphism in cystic fibrosis: a possible modifier of pulmonary phenotype.
Am J Respir Crit Care Med. 159: 1464-1468, 1999.

Aron Y. Bienvenu R. Hubert D. Dusser D. Dall'Ava J. Polla BS.
HLA-DR polymorphism in allergic bronchopulmonary aspergillosis.
J All Clin Immunol. 104: 891-892, 1999.
Favatier F. Jacquier-Sarlin MR. Swierczewski E. Polla BS.
Polymorphism in the regulatory sequence of human hsp70-1 gene: Effects on gene transcription.
Cell Mol Life Sci. 56:701-708, 1999.

Elia G. Polla BS. Rossi A. Santoro MG.
Induction of ferritin and heat shock proteins by prostaglandin A1 in human monocytes. Evidence for transcriptional and post-transcriptional regulation.
Eur J Biochem. 264: 736-745, 1999.

Banzet N. Francois D. Polla BS.
Tobacco smoke induces mitochondrial depolarization along with cell death: effects of antioxidants.
Redox Reports. 4: 229-236, 1999.

1998

Polla BS. Banzet N. Dall'Ava J. Arrigo AP. Vignola AM.
Les mitochondries, carrefour entre vie et mort cellulaire: Rôles des HSP et conséquences sur l'inflammation.
Médecine/Sciences. 14: 18-25, 1998.

Bornman L. Steinmann CML. Gericke G. Polla BS.
In vivo heat shock protects rat myocardial mitochondria.
Biochem Biophys Res Commun. 246: 836-840, 1998.

Morel A. Fernandez N. De La Coste A. Haddada H. Viguier M. Polla BS. Antoine B. Kahn A.

g-Ray irradiation induces B7.1 costimulatory molecule neoexpression in various murine tumour cells.
Cancer Immunol Immunother. 46: 277-282, 1998.

Bornman L. Rossouw H. Gericke G. Polla BS.
Effects of iron deprivation on the pathology and stress protein expression in murine x-linked muscular dystrophy.
Biochem Pharmacol. 56: 751-757, 1998.

Bachelet M. Mariethoz E. Banzet N. Souil E. Pinot F. Polla CZ.
Durand P. Bouchaert I. Polla BS.
Flow cytometry is a rapid and reliable method for evaluating heat shock protein expression in human monocytes.
Cell Stress & Chap. 3: 168-176, 1998.

Vayssier M. Banzet N. Francois D. Bellman K. Polla BS.
Tobacco smoke induces both apoptosis and necrosis in mammalian cells: Differential effects of Hsp70.
Am J Physiol. 275: L771-L779, 1998.

Bornman L. Baladi S. Richard MJ. Tyrrell R. Polla BS.
Differential regulation of stress proteins and ferritin in human monocytes.
J Cell Physiol. 178: 1-8, 1998.

Vayssier M. Favatier F. Pinot F. Bachelet M. Polla BS.
Tobacco smoke induces coordinate activation of HSF and inhibition of NFkB in human monocytes: Effects on TNF α release.
Biochem Biophys Res Commun. 252: 249-256, 1998.

Polla BS.
Young artists' performances in the Nineties: Acts and signs.
Semiotica. 122: 337-346, 1998.

1997

Walti H. Polla BS. Bachelet M.
Modified natural surfactant inhibits superoxide anions and proinflammatory mediators released by resting and stimulated human monocytes.
Ped Res.41: 114-119, 1997.

Fajac I. Roisman GL. Lacronique J. Polla BS. Dusser DJ.
Bronchial gd T lymphocytes and expression of heat shock proteins in mild asthma.
Eur Respir J. 10: 633-638, 1997.

Pinot F. El Yaagoubi A. Christie P. Dinh-Xuan AT. Polla BS.
Induction of stress proteins by tobacco smoke in human monocytes: Modulation by antioxidants.
Cell Stress & Chap. 2: 156-161, 1997.

Polla BS. Richard MJ. Robinson D. Maresca B.

Effects of membrane fatty acids on thermal and oxidative injury in the human premonocytic line U937.
Biochem Pharmacol. 54: 773-780, 1997.

Mariethoz E. Jacquier-Sarlin MR. Multhoff G. Healy AM. Tacchini-Cottier F. Polla BS.
Heat shock and proinflammatory stressors induce differential localisation of heat shock proteins in human monocytes.
Inflammation. 6: 629-642, 1997.

1996

Bornman L. Polla BS. Gericke GS.
Heat shock protein 90 and ubiquitin: Developmental regulation during myogenesis.
Muscle & Nerve. 19: 574-580, 1996.

Polla BS. Kantengwa S. Francois D. Salviolis S. Franceschi C. Marsac C. Cossarizza A.
Mitochondria are selective targets for the protective effects of heat shock against oxidative injury.
Proc Natl Acad Sci. 93: 6458-6463, 1996.

Bornman L. Gericke GS. Polla BS.
Oxidative stress, calcium and age are interdependent regulators of the stress response in Duchenne muscular dystrophy.
BAM 6: 273-277, 1996.

Jacquier-Sarling MR. Polla BS.
Dual regulation of heat shock factor (HSF) activation and DNA-binding activity: role of thioredoxin.
Biochem J. 318: 187-193, 1996.

Barazzonne C. Kantengwa S. Suter S. Polla BS.
Phagocytosis of Pseudomonas aeruginosa fails to elicit heat shock protein expression in human monocytes.
Inflammation. 20: 243-262, 1996.

Jacquier-Sarlin MR. Dreher D. Polla BS.
Selective induction of the glucose-regulated protein grp78 in human monocytes by bacterial extracts (OM-85): a role for calcium as second messenger.
Biochem Biophys Res Commun. 226: 166-171, 1996.

Barazzonne C. Jacquier-Sarling MR. Baladi S. Dinh-Xuan AT. Polla BS.
Bacterial and self heat shock proteins in pulmonary inflammation.
Eur Resp J. 36: 166-170, 1996.

Polla BS. Jacquier-Sarlin MR. Kantengwa S. Mariethoz E. Hennet T. Russo-Marie F. Cossarizza A.
TNF α alters mitochondrial membrane potential in L929 but not in TNF α -resistant L929.12 cells: Relationship with the synthesis of stress proteins, superoxide dismutase activity and annexin I.

Free Rad Res. 25: 125-131, 1996.

1995

Bornman L. Polla BS. Lotz BP. Gerick GS.
Expression of heat shock proteins in muscle from Duchenne muscular dystrophy patients.
Muscle & Nerve. 18: 23-31, 1995.

Kantengwa S. Muller I. Louis J. Polla BS.
Infection of human and murine macrophages with Leishmania major is associated with early parasite heat shock protein synthesis but fails to induce host stress response.
Immunol Cell Biol. 73: 73-80, 1995.

Polla BS. Stubbe H. Kantengwa S. Maridonneau-Parini I. Jacquier-Sarling MR.
Differential induction of stress proteins and functional effects of heat shock in human phagocytes.
Inflammation. 19: 363-378, 1995.

Jaques D. Bonzon M. Polla BS.
Serological evidence of Aspergillus type hypersensitivity in a subgroup of pulmonary aspergilloma.
Int Arch of Allergy and Immunol. 106: 263-270, 1995.

Eigenmann PA. Belli DC. Ludi F. Kahn JM. Polla BS.
In-vitro lymphocyte proliferation with milk and an hydrolyzed casein whey protein formula in cow's milk allergic children.
J All Clin Immuno. 96: 549-557, 1995.

Jacquier-Sarlin MR. Jornot L. Polla BS.
Differential expression and regulation of hsp70 and hsp90 by phorbol esters and heat shock.
J Biol Chem. 270: 14094-14099, 1995.

Polla BS. Baladi S. Fuller K. Rook G.
Species-specific hsp65 in bacterial extracts (OM-89): A possible mediator of orally-induced tolerance?
Experientia. 51: 775-779, 1995.

Vignola AM. Chanez P. Polla BS. Vic P. Godard P. Bousquet J.
Increased expression of heat shock protein 70 on airway cells in asthma and chronic bronchitis.
Am J Resp Cell & Mol Biol. 13: 683-691, 1995.

1994

Rylander R. Goto H. Yuasa K. Fogelmark B. Polla B.
Bird droppings contain endotoxin and (1->3)-Beta-D-Glucan.
Int Arch Allergy Immunol. 103, 102-104, 1994.

Jolliet P. Polla BS. Donath A. Slosman DO.
Early hydrogen peroxyde-induced pulmonary endothelial cell dysfunction: detection and prevention.

Crit Care Med. 22, 157-162, 1994.

Jacquier-Sarlin M. Polla BS.
Protéines de stress: Soi, non-soi et réponse immune.
Médecine/Sciences. 10, 31-41, 1994.

Baladi S. Kantengwa S. Donati YRA. Polla BS.
Effects of bacterial extracts (OM-85) on phagocyte functions and the stress response.
Mediators of Inflammation, 3, 143-148, 1994.

Mariethoz E. Tacchini-Cottier F. Jacquier-Sarlin M. Sinclair F. Polla BS.
Exposure of antigen presenting cells to heat shock modulates antigen-dependent T cell responses.
Int Immunol. 6, 925-930, 1994.

Perin-Minisini M. Kantengwa S. Polla BS.
DNA damage and stress protein synthesis induced by oxidative stress proceed independently in the human promonocytic line U937.
Mutation Research. DNA Repair. 315, 169-179, 1994.

Pizurki L. Polla BS.
cAMP modulates stress protein synthesis in human monocytes-macrophages.
J Cell Physiol. 161, 169-177, 1994.

Barrios C. Tougne C. Polla BS. Lamber PH. Del Giudice G.
Specificity of antibodies induced after immunization of mice with the mycobacterial Heat Shock Protein of 65kD.
Clin Exp Immunol. 98, 224-228, 1994.

1993

Kantengwa S. Polla BS.
Infection with Staphylococcus aureus induces a selective stress response in human monocytes-macrophages (mf): Modulation by mf differentiation and by iron.
Infection and Immunity. 61, 1281-1287, 1993.

Kantengwa S. Polla BS. Gleich GJ. Kondo M. Reimert CM. Junod AF.
Spontaneous heat shock protein synthesis by alveolar macrophages in two cases of interstitial lung diseases associated with alveolar eosinophilia.
Eur Resp J. 6, 483-488, 1993.

Maridonneau-Parini I. Malawista SW. Stubbe H. Russo-Marie F. Polla BS.
Heat-shock proteins in human neutrophils: Protection of NADPH oxidase activity.
J Cell Physiol. 156, 204-211, 1993

1991

Polla BS.
Heat shock proteins in host-parasite interactions.
Immuno(parasito)logy Today. A38-A41, 1991.

Donati IRA. Kantengwa S. Polla BS.
Phagocytosis and heat shock response in human monocytes-macrophages.
Pathobiology. 59, 156-161, 1991.

Helqvist S. Polla BS. Johannesen J. Nerup J.
Heat shock protein induction in rat pancreatic islets by recombinant human interleukin 1b.
Diabetologia, 34, 150-156, 1991.

Kantengwa S. Polla BS.
Flavonoids, but not protein kinase C inhibitors, inhibit stress protein synthesis during erythrophagocytosis.
Biochem Biophys Res Comm. 180, 308-315, 1991.

Polla BS. Clerc J. Pittet JF. Morel DR.
Superoxide production by peripheral blood monocytes during sustained endotoxaemia in sheep.
Clinical Science. 81, 815-822, 1991.

Rees ADM. Donati YRA. Lombardig G. Lamb J. Polla BS. Lechler R.
Stress-induced modulation of antigen presenting cell function.
Immunolo. 74, 386-392, 1991.

1990

Clerget M. Polla BS.
Erythrophagocytosis induces stress/heat shock protein synthesis by human monocytes macrophages.
Proc Natl Acad Sci. 87 : 1081-1085, 1990.

Polla BS.
Heat (shock) and the skin.
Dermatologica 180: 113-117, 1990.

Krane SM. Polla BS. Bonventre JV.
1,25-dihydroxyvitamin D3 increases the toxicity of hydrogen peroxide: the role of calcium and heat shock.
Exp Gerontol. 25: 239-245, 1990.

Kantengwa S. Capponi AM. Bonventre JV. Polla BS.
Calcium and the heat shock response in the human premonocytic line U937: Effects of 1,25-dihydroxyvitamin D3.
Am J Physiol. 259: C77-C83, 1990.

Polla BS. Donati YR. Kondo M. Tochon-Danguy HS. Bonjour JP.
Protection from cellular oxidative injury and calcium intrusion by N-(2-mercaptoethyl)-1,3-propanediamine, WR 1065.

Biochem Pharmacol. 40, No7:1469-1475,1990

Slosman DO. Costabella MO. Roth M. Werlen G. Polla BS.
Bleomycin primes monocytes-macrophages for superoxide production.
Eur Resp J. 3:772-778, 1990.

Donati YRA. Slosman DO. Polla BS.
Oxidative injury and the heat shock response.
Biochem Pharmacol. 40,: 2571-2577, 1990

1989 Polla BS. Welen G. Clerget M. Pittet D. Rossier M. Capponi AM.
1,25-dihydroxyvitamin D3 induces responsiveness to the chemotactic peptide f-met-leu-phe in the human monocytic line U937: Dissociation between calcium and oxidative metabolic responses.
J Leukocyte Biol. 45: 381-388, 1989.

Polla BS. Young DB.
Heat shock proteins and immunity.
Immunol Today. 10, 393-394, 1989.

1988 Polla BS.
A role for heat shock proteins in inflammation?
Immunol Today 9: 134-137, 1988.

Polla BS. Ohara J. Paul WE. Nabavi N. Myer A. Liou HC. Shen FW. Gillis S. Bonventre JV. Glimcher LH.
Differential induction of class II gene expression in murine pre B cell lines by B cell stimulatory factor-1 by antibodies to B cell surface antigens.
J Mol Cell Immunol. 3: 363-373, 1988.

Liou HC. Polla BS. Aragnol D. Leserman LD. Griffith IJ. Glimcher LH.
A tissue-specific DNase I hypersensitive site in a class II Alpha gene is under transregulatory control.
Proc Natl Acad Sci. 85: 2738-2742, 1988.

Polla BS. Bonventre JV. Krane SM.
1,25-dihydroxyvitamin D3 increases the toxicity of hydrogen peroxide in the human monocytic line U937: Role of calcium and heat shock.
J Cell Biol. 107: 373-380, 1988.

Maridonneau-Parini I. Clerc J. Polla BS.
Heat shock inhibits NADPH oxidase in human neutrophils.
Biochem Biophys Res Commun. 154: 179-186, 1988.

1987 Slosman D. Brill AB. Polla BS. Alderson PO.
Evaluation of [Iodine-125] N,N,N'-Trimethyl-N'-[2-Hydroxy-3-Methyl-5-Iodobenzyl]-1,3-Propane-diamine lung uptake using an isolated-perfused lung model.
J Nucl Med. 28: 203-208, 1987.

Glimcher LH. Polla BS. Morton C. McKean D.
Murine class II (Ia) molecules associate with human invariant chain.
J Immunol. 138: 1519-1523, 1987.

Polla BS. Healy AM. Wojno WC. Krane SM.
Hormone 1 α ,25-dihydroxyvitamin D $_3$ modulates heat shock response in monocytes.
Am J Physiol. 252 (Cell Physiol. 21): C640-C649, 1987.

Polla BS. Healy AM. Byrne M. Krane SM.
1,25-dihydroxyvitamin D $_3$ induces collagen binding on the human monocytic line U937.
J Clin Invest. 80: 962-969, 1987.

Polla BS. Anderson RR.
Thermal injury by laser pulses: Protection by heat shock despite failure to induce heat shock proteins.
Las in Surg and Med. 7: 398-404, 1987.

1986

Polla BS. Healy AM. Amento EP. Krane SM.
1,25-dihydroxyvitamin D $_3$ maintains adherence of human monocytes and protects them from thermal injury.
J Clin Invest. 77: 1332-1339, 1986.

Polla BS. Poljak A. Geier S. Nathenson SG. Ohara J. Paul WE. Glimcher LH.
Three distinct signals can induce class II gene expression in a murine pre B cell line.
Proc Natl Acad Sci. 83: 4878-4882, 1986.

Polla BS. Poljak A. Ohara J. Paul WE. Glimcher LH.
Regulation of class II gene expression: Analysis in B cell stimulatory factor 1 - inducible murine pre B cell lines.
J Immunol. 137: 3332-3337, 1986.

Polla BS. Poljak A. Geier S. Nathenson SG. Ohara J. Paul WE. Glimcher LH.
Regulation of class II gene expression in a murine pre B cell line.
Fed Proc. 45: 2295-2299, 1986.