

Curriculum Vitae

1. Name: **Jianzhong Shen**
2. Address: **Auburn University**
Harrison School of Pharmacy
Division of Pharmacology
Dept. of Drug Discovery and Development
4306G Walker Building
Auburn, AL 36849
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3. Education:
Ph.D. in Pharmacology
Department of Medical Pharmacology & Physiology,
University of Missouri-Columbia, School of Medicine (07/2005)
Dissertation: Purinergic Proliferation of Coronary Smooth Muscles: Receptor Cloning, Up-regulation and Signaling.
Advisor: Dr. Michael Sturek
Master of Medicine
Cardiovascular Pharmacology, Zhejiang University, School of Medicine,
Hangzhou, China, 1999.
Diploma in Pharmacy
Pharmaceutical Science, Zhejiang University, School of Pharmacy,
Hangzhou, China, 1993.
4. Professional and Research Positions:
2014— **Associate Professor with Tenure**, Dept. of Drug Discovery & Development,
Auburn University, Harrison School of Pharmacy, USA
2008—2014 **Assistant Professor of Pharmacology** (Tenure-track) Dept. of Drug Discovery
& Development, Auburn University, Harrison School of Pharmacy, USA
2005—2008 **Post-doctoral Research Fellow** (with Dr. Paul E. DiCorleto) Department of
Cell Biology, Lerner Research Institute of Cleveland Clinic, USA
2001—2005 **Graduate Research Assistant** (with Dr. Michael Sturek) Department of
Medical Pharmacology & Physiology, University of Missouri-Columbia, USA.
2000—2001 **Visiting Scholar** (with Dr. C.Y. Kwan) Smooth Muscle Research Group,
Department of Medicine, McMaster University, Canada.
1999—2001 **Research Associate** (Faculty Member) Department of Pharmacology,
Zhejiang University, School of Medicine, Hangzhou, China.
1996—1999 **Graduate Student** (Full-time) Department of Pharmacology,
Zhejiang University, School of Medicine, Hangzhou, China.
1995—1996 **Clinical Pharmacist** Department of Clinical Pharmacology,
the Second Teaching Hospital of Zhejiang University, Hangzhou, China.

4) Cellular & Molecular Pharmacology-II (Each Spring, Coordinator, 30% of course lectures)

Average Score of Student Evaluation: **5.45/6** (Year 2011)
3.84/4 (Year 2013)

- 1999—2001 **Lecturer** (Faculty Member) Department of Pharmacology, Zhejiang University, School of Medicine, Hangzhou, China.
- 1997—1998 **Teaching Assistant** (Part-time) Department of Pharmacology, Zhejiang University, School of Medicine, Hangzhou, China.
- 1994—1995 **Guest Teacher** (Part-time) School of Nursing, the Second Teaching Hospital of Zhejiang University, Hangzhou, China.

6. Honors and Awards:

- Faculty Research Excellence Award** (2013), Harrison School of Pharmacy, Auburn University
- Certificate of Appreciation** (2010) for reviewing 100 manuscripts for *Cardiovascular Research*
- Morganthaler Post-doc Fellowship (2005—2008)** offered by *Cleveland Clinic Foundation*. Worldwide Competition (the only winner of 35 applicants).
- Junior Investigator Award** from the *North American Vascular Biology Organization*, April, 2008, San Diego
- First Place of Postdoctoral Scientist Award** offered by the *American Society for Pharmacology & Therapeutics*, Division of Cardiovascular Pharmacology, Nationwide Competition (13 nominees), April 30, 2007, Washington D.C.
- Young Scientist Travel Award** offered by the *American Society for Pharmacology & Therapeutics*, April 28, 2007, Washington D.C.
- First Place of Graduate Student Best Paper Award** in *ASPET's* Division of Cardiovascular Pharmacology, Nationwide Competition (32 entrants), April 4, 2005, San Diego.
- Pre-doctoral Life Science Fellowship** at the University of Missouri-Columbia, Campus-wide Competition (from 09/2001 to 08/2005).
- Super Reviewer-2012** for the journal *Cardiovascular Research*.
- Super Reviewer-2011** for the journal *Cardiovascular Research*.
- Super Reviewer-2010** for the journal *Cardiovascular Research*.
- Super Reviewer-2009** for the journal *Cardiovascular Research*.
- Super Reviewer-2008** for the journal *Cardiovascular Research*.
- Super Reviewer-2007** for the journal *Cardiovascular Research*.
- Super Reviewer-2006** for the journal *Cardiovascular Research*.
- Super Reviewer-2005** for the journal *Cardiovascular Research*.
- Super Reviewer-2004** for the journal *Cardiovascular Research*.
- Super Reviewer-2003** for the journal *Cardiovascular Research*.
- Poster Competition Winner** at Missouri Life Science Week-2005, Molecular Biology Category, April 11-15, 2005, Columbia, Missouri.

First Prize of Poster Competition at Cardiovascular Day XII, February 21, 2005, University of Missouri-Columbia.

ASPET Graduate Student Travel Award at Experimental Biology-2004, April 17-21, 2004, Washington DC.

Poster Competition Winner at Missouri Life Science Week-2004, Cell Biology Category, April 5-9, 2004, Columbia, Missouri.

First Place of Poster Competition at Cardiovascular Day XI, February 9-10, 2004, University of Missouri-Columbia.

Travel Award of MU Molecular Biology Program, 2002 & 2004, University of Missouri-Columbia.

Outstanding Research Performance Award in Post-graduate Program, Zhejiang University, Hangzhou, China, 1999.

First Place Scholarship for Excellent Post-graduate Academic Performance, Zhejiang University, Hangzhou, China, 1997.

Excellent Academic Performance Award in Undergraduate Program, Zhejiang University, Hangzhou, China, 1993.

7. Membership and Activity in Scientific and Professional Societies:

Professional member of the New York Academy of Sciences

Member of American Association for the Advancement of Science

Member of the *Award Competition Committee* for the American Society for Pharmacology & Therapeutics, Division of Cardiovascular Pharmacology.

Co-chair of the Session of Graduate Student and Postdoctoral Scientist Best Abstract Competition, ASPET-Division of Cardiovascular Pharmacology in Experimental Biology-2008, April 8, San Diego, CA.

Co-chair of the Session of Graduate Student and Postdoctoral Scientist Best Abstract Competition, ASPET-Division of Cardiovascular Pharmacology in Experimental Biology-2006, April 3, San Francisco, CA.

Full Member of Sigma Xi, the Scientific Research Society

Member of American Heart Association, Sections of ATVB & Basic Cardiovascular Science

Fellow Member of International Society for Heart Research, American & Chinese Sections

Regular Member of the American Society for Pharmacology and Experimental Therapeutics (ASPET)

Regular Member of the American Physiological Society

Member of North American Vascular Biology Organization

Member of American Society for Biochemistry and Molecular Biology

Member of American Association of College of Pharmacy (AACP)

8. Reviewer for Professional Journals:

<i>Cardiovascular Research</i>	<i>Blood</i>
<i>Circulation Research</i>	<i>ATVB</i>
<i>Thrombosis and Haemostasis</i>	<i>Pancreas</i>

Journal of Biological Chemistry
Life Sciences
PLoS ONE

Molecular Pharmacology
Acta Pharmacologica Sinica
Physiological Report

9. Supervised Research Students & Postdoc Trainees:

Dr. Ling Ding (Post-doc Fellow at Auburn, 2009-2010)
Dr. Xiaoling Zhang (Visiting Scholar at Auburn, 2013)
Dr. Wanshu Ma (Ph.D. Student at Auburn, 2009-2013)
Ms. Yiwei Liu (Ph.D. Student at Auburn, 2011-present)
Ms. Lingxin Zhang (Ph.D. Student at Auburn, 2012-present)
Mr. Chuan Wang (Ph.D. Student at Auburn, 2013-present)
Mr. Thamer Alqurashi (Ph.D. Student at Auburn, 2014-present)
Mr. Fred Bonsack (Pre-Med Student at Auburn, 2014)
Ms. Jennifer Malkiel (Pre-Med Student at Auburn, 2014)
Ms. Whitney Esdale (Pre-Med Student at Auburn, 2014)
Mr. Thomas Moore (Pre-Med Student at Auburn, 2014)
Ms. Shamma Roy (Pre-Med Student at Auburn, 2014)
Ms. Danielle Poole (Pre-Med Student at Auburn, 2014)
Ms. Elena Gibson (Pre-Med Student at Auburn, 2013)
Mr. John Chandler Van Dyke (Pre-Med Student at Auburn, 2013)
Mr. Thomas Johnson (Pre-Med Student at Auburn, 2013)
Ms. Sarah Parker (Pre-Med Student at Auburn, 2013)
Ms. Christina Skelly (Pre-Med Student at Auburn, 2013)
Ms. Angela Tortomase (Pre-Med Student at Auburn, 2013)
Ms. Jamie Kennedy (Pre-Med Student at Auburn, 2013)
Mr. Graeson Sloop (Pre-Med Student at Auburn, 2013)
Ms. Taylor Boyd (Pre-Med Student at Auburn, 2013)
Ms. Tiffany Freaney (Pre-Med Student at Auburn, 2013)
Ms. Anna Lassiter (Pre-Med Student at Auburn, 2013)
Ms. Laura Crocker (Pre-Med Student at Auburn, 2012; 2013)
Mr. Nicholas Ellison (Pre-Med Student at Auburn, 2012; 2013)
Ms. Kathleen Beevers (Pre-Med Student at Auburn, 2012)
Ms. Bethany Martin (Pre-Med Student at Auburn, 2012)
Ms. Brittany Clark (Pre-Pharmacy Student at Auburn, 2012)
Mr. Branden Riggins (Pre-Med Student at Auburn, 2012)
Mr. William Cornutt (Pre-Med Student at Auburn, 2011)
Mr. Riley Camp (Pre-Med Student at Auburn, 2011)
Mr. Tim Littmann (Pre-Med Student at Auburn, 2011)
Mr. Dong Chen (Rotated Graduate Student of the COSAM program at AU, 2010)
Mr. Eric M. Long (Cleveland Clinic, 2008);
Ms. Theresa Guo (Cleveland Clinic, 2007);
Ms. Lana Pollock (Cleveland Clinic, 2006);
Mr. Andrew Wiedemann (Cleveland Clinic 2005);
Ms. Christy Hanna (University of Missouri-Columbia, 2004)

10. Service in Graduate Student Thesis/Dissertation Committee at Auburn:

Graduated: Wanshu Ma, Ph.D. (2009-2013, Dissertation Supervisor)
Gayani Nanayakkara, Ph.D. (2009-2013, Committee Member)
Manuj Ahuja, Ph.D. (2009-2013, Committee Member)
Manal Buabeid, Ph.D. (2009-2014, Committee Member)
Hui Gao, Ph.D. (2009, Thesis Outside Reader)
Aaron Seeto, Ph.D. (Chemical Engineering, 2009-2013, Committee Member)

In Progress:

Ms. Yiwei Liu (2011-present, Dissertation Supervisor)
Ms. Lingxin Zhang (2012-present, Dissertation Supervisor)
Mr. Chuang Wang (2013-present, Dissertation Supervisor)
Mr. Thamer Alqurashi (2014-present, Dissertation Supervisor)
Mr. Richard Davis (2011-present, Committee Member)
Mr. Abdullah Alasmari (2012-present, Committee Member)
Mr. Subhrajit Bhattacharya (2011-present, Committee Member)
Ms. Shravanthi Mouli (2012-present, Committee Member)
Mr. Andrew Brannen (2012-present, Committee Member)

11. Service in University/School Committees at Auburn:

School Graduate Program Committee (2010—2011)
Department Graduate Program Committee (2011—present)
School IT Advisory Committee (2008—2011)
Professional Education Subcommittee-I&II (2008—2014)
School Strategic Planning Committee (2015—present)
Department New Faculty Search Committee (2015)
School Honor Board (2012—present)
Abstract/Poster Judge of Annual Graduate Student Forum (2009—2015)

12. Outreach Activity:

Seeking a Science Career? Invited lecture, July 2010, Auburn CMB Summer Program for High School Students
Religion and Science: a Personal Testimony. Invited Talk in Lakeview Baptist Church, Auburn, Alabama, September 2009.

13. Grant Application Status:

Funded:

Non-platelet P2Y Receptors and Thrombosis
\$4,000.00, AU-IGP (Auburn University Intramural Grant Program, 2011)

Circulating SDF-1, Vascular Homeostasis, and Atherosclerosis
\$308,000.00, American Heart Association, National SDG Award:
12SDG8850011, Active from 01/01/2012 to 12/31/2015.

Pending:

Blood SDF-1 Signaling and Atheroprotection
\$60,000.00, Research Starter Grant, PhRMA Foundation

Selected as an Award Alternate, pending final decision.

In Revision:

Non-platelet P2Y Receptor in Vascular Inflammation and Thrombogenesis
\$1,848,750.00, NIH, 1R01HL125279-01, scored 40%,
Pending resubmission on June 05, 2015

In Review:

CXCR7 Signaling in Vascular Biology and Disease
\$1,848,750.00, NIH, 1R01HL130043-01
Submitted as a new R01 on February 05, 2015, will be reviewed in June

In Preparation:

Biased Nucleotide Receptor Signaling and Inflammation
(Targeted for NIH-R01)

14. Areas of Research Interests:

- 1). *G Protein-coupled Nucleotide/Nucleoside Receptors in Vascular Biology and Disease;*
- 2). *Signaling Mechanisms Governing the Adhesion and Migration of the Inflammatory, Progenitor/Stem Cells into the Vascular Wall;*
- 3). *Protein Phosphatase in Vascular Cell Signaling and Diseases.*

15. Peer-Reviewed Publications (* corresponding authorship):

- 1). Ma W, Liu Y, Wang C, Zhang L, Crocker L, **Shen J***. Atorvastatin Inhibits CXCR7 Induction to Reduce Macrophage Migration. *Biochem Pharmacol.* 2014;89(1):99-108.
- 2). **Shen J*** and Ma W. SDF-1: a Cell Mobilizer as a Stabilizer for Atherosclerosis? *Arterioscler Thromb Vasc Biol.* 2013; eLetter 60. (Editorial Commentary Published on June 14, 2013).
- 3). Ma W, Liu Y, Ellison N, **Shen J***. Induction of C-X-C Chemokine Receptor Type 7 (CXCR7) Switches Stromal Cell-Derived Factor-1 (SDF-1) Signaling and Phagocytic Activity in Macrophages Linked to Atherosclerosis. *J Biol Chem.* 2013, 288(22):15481-15494.
- 4). **Shen J***, Ma W, Liu Y. Deacetylase SIRT6 Deaccelerates Endothelial Senescence. *Cardiovasc Res.* 2013, 97(3): 391-392.
- 5). Ding L, Ma W, Littmann T, Camp R, **Shen J***. The P2Y₂ Nucleotide Receptor Mediates Tissue Factor Expression in Human Coronary Artery Endothelial Cells. *J Biol Chem.* 2011, 286(30):27027-27038.
- 6). **Shen J***, Chandrasekharan UM, Ashraf MZ, Long E, Morton RE, Liu Y, Smith JD, DiCorleto PE. Lack of MAP Kinase Phosphatase-1 Protects ApoE-null

- Mice against Atherosclerosis. *Circ Res*. 2010;106(5):902-910.
- 7). Kinney C, Chandrasekharan UM, Yang L, **Shen J**, Kinter M, McDermott MS DiCorleto PE. Histone H3 as a Novel Substrate for MAP Kinase Phosphatase-1. *Am J Physiol Cell Physiol*. 2009;296(2):C242-249.
 - 8). **Shen J*** and DiCorleto PE. Adenosine prompts the heart to recruit endothelial progenitors. *Circ Res*. 2008;102(3):280-282.
 - 9). **Shen J** and DiCorleto PE. ADP stimulates human endothelial cell migration via P2Y₁ nucleotide receptor-mediated mitogen-activated protein kinase pathways. *Circ Res*. 2008;102(4):448-456.
 - 10). **Shen J**, Halenda SP, Sturek M, Wilden PA. Cell-signaling evidence for adenosine stimulation of coronary smooth muscle proliferation via the A₁ adenosine receptor. *Circ Res*. 2005;97(6):574-582. [Journal cover photo, September 16, 2005].
 - 11). **Shen J**, Halenda SP, Sturek M, Wilden PA. Novel mitogenic effect of adenosine on coronary artery smooth muscle cells: role for the A₁ adenosine receptor. *Circ Res*. 2005; 96(9):982-990.
 - 12). **Shen J**, Seye CI, Wang M, Weisman GA, Wilden PA, Sturek M. Cloning, up-regulation, and mitogenic role of porcine P2Y₂ receptor in coronary artery smooth muscle cells. *Mol Pharmacol*. 2004; 66(5): 1265-1274.
 - 13). **Shen J**, Zheng XF, Wei EQ and Kwan CY. Green tea catechins evoke a phasic contraction in rat aorta via H₂O₂-mediated multiple-signaling pathways. *Clin Exp Pharmacol Physiol*. 2003(1-2):88-95.
 - 14). Wei EQ, **Shen J**. Trends in the post-genomic pharmacological research (review). *Trends in Physiological Science* 2002;33(1):7-11.
 - 15). Yan LQ, Wei EQ, Hu HT, Zhang WP, Wang ML, **Shen J**. Novel quantitative method for evaluating oxygen/glucose deprivation-induced injury of hippocampal slices. *Journal of Zhejiang Univ (Medical Sciences)*. 2002;31(2):81-85.
 - 16). Yan LQ, Wei EQ, **Shen J**. Protection by haloperidol against N-methyl-D-aspartate-induced injury of rat primary hippocampal neuronal cultures. *Bulletin of Science and Technology* 2002;18(4):265-269.
 - 17). Yan LQ, Wei EQ, **Shen J**, Shen B. Protective effect of haloperidol on oxygen/glucose deprivation- and NMDA-induced injuries on rat hippocampal slices and primary neurons. *Acta Pharmaceutica Sinica* 2002;37(12):922-6.

- 18). Kang H, Wei EQ, Yang XH, Zhang WP, **Shen J**. VCAM-1 expression, eosinophil infiltration, and pharmacological modulation in rat allergic airway inflammation. *Acta Pharmacol Sin.* 2002;23(2):157-161.
- 19). Zhang YL, **Shen J**, Lu Y, et al. Role of EGF receptor in H₂O₂-induced contraction of rat aorta. *Zhejiang Medicine* 2002;24(7):407-9.
- 20). **Shen J**, Zheng XF, Wei EQ, Kwan CY. Evidence against sarcoplasmic reticulum Ca²⁺-pump inhibition as the mechanism of H₂O₂-induced contraction of rat aorta. *Acta Pharmacol Sin.* 2001;22(6):498-504.
- 21). **Shen J**, Zheng XF, Kwan CY. Evidence for P₂-purinoceptors contribution in H₂O₂-induced contraction of rat aorta in the absence of endothelium. *Cardiovasc Res* 2000;47(3):574-585.
- 22). **Shen J**, Zheng XF, Kwan CY. Differential contractile actions of reactive oxygen species on rat aorta: selective activation of ATP receptor by H₂O₂. *Life Sci* 2000;66(21):PL291-296.
- 23). **Shen J**, Zheng XF. Characteristics of impaired endothelium-dependent relaxation of rat aorta after streptozotocin-induced diabetes. *Acta Pharmacol Sin* 1999;20(9):844-850.
- 24). **Shen J**, Zheng XF. Calcium-activated potassium channel and its regulation in vascular smooth muscle cells (review). *Chinese Pharmacological Bulletin* 1998;14(6):488-491.

16. Meeting Abstracts and Oral Presentations:

- 1). Liu Y, Zhang L, Wang C, Shama R, **Shen J**. P2Y2 Receptor Control of Tissue Factor Transcription in Human Coronary Artery Endothelial Cells: New AP-1 Site and Negative Regulator. *The FASEB Journal*, 2015, 29(1) Supplement 625.7. Oral and Poster Presentations in EB-2015, April 31, Boston.
- 2). Liu Y, Ma W, Crocker L, **Shen J**. Atorvastatin Inhibits Induction of Chemokine Receptor CXCR7 to Reduce Macrophage Migration. *The FASEB Journal*, 2014 28(1), Supplement: 1148.12. Poster Presentation in EB-2014, April 28, San Diego.
- 3). Ma W, Liu Y, Ellison N, **Shen J**. Induction of CXCR7 Switches SDF-1 Signaling and Phagocytic Function in Macrophages: a Potential Role in Atherosclerosis. Poster Presentation in EB-2013, April 22, Boston.
- 4). Ma W, Liu Y, Littman T, Camp R, **Shen J**. CXCR7 Induction, Signaling and Phagocytic Function in Macrophages Linked with Atherosclerosis. *Invited Talk in ATVB annual meeting, April 2012, Chicago.*

- 5). Ma W, Ding L, and **Shen J**. P2Y Nucleotide Receptor and Thrombosis: Insight Beyond Plavix. *Poster Presentation in EB-2011, April 12, Washington D.C.*
- 6). **Shen J**, Chandrasekharan UM, Liu Y, Smith JD, DiCorleto PE. MAP Kinase Phosphatase-1 (MKP-1) deficiency leads to reduced atherosclerotic lesion formation in apoE-null mice. *Invited Talk in Experimental Biology-2008, April 6, San Diego, CA*
- 7). **Shen J** & DiCorleto PE. ADP stimulates human endothelial cell migration via P2Y₁ receptor-mediated MAPK pathways. *FASEB 2007;21(6):877.1. Invited talk in Experimental Biology-2007, April 30, Washington D.C.*
- 8). **Shen J**, DiCorleto PE, Sturek M. Cloning and characterization of the porcine P2Y₆ receptor: evidence for G_i protein-mediated signaling in coronary smooth muscle. *FASEB 2006;20(4):172.10.*
- 9). **Shen J**, Halenda SP, Sturek M, Wilden PA. Cloning and identification of the porcine A₁ adenosine receptor mediating a novel mitogenic action of adenosine in coronary artery smooth muscle cells. *FASEB 2005;19(5):360.2. Invited Talk in Experimental Biology-2005, April 4, San Diego, CA*
- 10). **Shen J**, Hanna CM, Halenda SP, Sturek M, Wilden PA. A paradoxical mitogenic effect of adenosine on porcine coronary artery smooth muscle cells mediated by adenosine A₁ receptors. *Diabetes 2004;53:II-2096.*
- 11). **Shen J**, Seye CI, Wang MF, Weisman GA, Wilden PA, Sturek M. Cloning, upregulation, and mitogenic role of porcine P2Y₂ receptor in coronary artery smooth muscle cells. *FASEB 2004;18(4):399.4.*
- 12). **Shen J**, Lee S, Turner JT. Induction of Ca²⁺ influx by H₂O₂ in astrocytoma cells: a role of G_{i/o} proteins. *Meeting Abstract (144.7) at the XIVth World Congress of Pharmacology, San Francisco, July 7-12, 2002.*

17. Invited Seminars at Other Institutions:

- Louisiana State University, Dept. of Comparative Biomedical Sciences, 2014
- University of Missouri-Columbia, Dept. of Biomedical Sciences, 2013
- Texas A&M University Health Science Center-College of Pharmacy, 2013
- Medical College of Georgia-Department of Physiology, Augusta, 2013
- Albany Medical College-Center for Cardiovascular Science, Albany, 2013
- University of Maryland-School of Pharmacy, Eastern Shore, 2013
- Saint Louis University-School of Medicine, Dept. of Biochemistry, 2008
- University of Georgia-College of Pharmacy, Athens, 2008

- Texas Tech University-School of Pharmacy, Amarillo, 2008
- Cleveland State University-College of Sciences, Cleveland, 2008
- City College of New York-School of Health Sciences, New York, 2008
- Albany Medical College-Center for Cardiovascular Science, Albany, 2008
- University of Texas Health Science Center at San Antonio-School of Medicine, Dept. of Pharmacology, 2008

18. References:

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 Phone: 334-844-8348
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Paul E. DiCorleto, Ph.D.
 Sherwin-Page Chairman
 Cleveland Clinic, Lerner Research Institute
 Chairman, Department of Molecule Medicine
 Case Western Research University School of Medicine
 9500 Euclid Avenue
 Cleveland, OH 44195
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Michael Sturek, Ph.D.
 Professor and Chairman
 Department of Cellular & Integrative Physiology
 Indiana University, School of Medicine
 635 Barnhill Drive, MS 309
 Indianapolis, IN 46202-5120

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