

CURRICULUM VITAE
Rashmi Sood, PhD
Associate Professor of Pathology
Associate Professor of Cell Biology, Neurobiology & Anatomy

August, 2016

1. **OFFICE ADDRESS:** Department of Pathology, Division of Pediatric Pathology
Medical College of Wisconsin
8701 Watertown Plank Road
Milwaukee, WI 53226
Phone: (414) 955-2451
Fax: (414) 955-6307
E-mail: rsood@mcw.edu

2. **EDUCATION**
May 1983 Bachelor of Science (Honors), University of Delhi, India
May 1985 Master of Science, University of Delhi, India
Dec 1999 PhD in Molecular Biology, Tata Institute of Fundamental Research
University of Bombay, India

3. **POSTGRADUATE TRAINING, FELLOWSHIP AND OTHER PROFESSIONAL APPOINTMENTS**
July 1986- July 1992 Research Scholar, Tata Institute of Fundamental Research,
Bombay, India
May 1994- Oct 1995 Consultant, CNR Istituto di Citomorfologia Normale e Patologica,
Bologna, Italy
Sept 1996- Feb 2000 Research Associate, Cardinal Bernardin Cancer Center, Loyola
University Medical Center, Maywood, Illinois, USA
July 2000- Aug 2002 Post-doctoral Fellow, Blood Research Institute, Blood Center of
Wisconsin, Milwaukee, WI 53226
Sept 2000- May 2007 Research Associate II, Blood Research Institute, Blood Center of
Wisconsin, Milwaukee, WI 53226
April 2007-Feb 2008 Research Scientist, Blood Research Institute, Blood Center of
Wisconsin, Milwaukee, WI 53226
March 2008-Current Investigator, Children's Research Institute, Milwaukee, WI

4. **FACULTY APPOINTMENTS**
March 2008-Current Assistant Professor of Pathology, Division of Pediatric Pathology,
Medical College of Wisconsin, Milwaukee, WI (Primary
appointment)

July 2013-Current	Assistant Professor of Cell Biology, Neurobiology & Anatomy, Medical College of Wisconsin, Milwaukee, WI
July 2014-Current	Associate Professor of Pathology, Division of Pediatric Pathology, Medical College of Wisconsin, Milwaukee, WI (Primary appointment)
July 2014-Current	Associate Professor of Cell Biology, Neurobiology & Anatomy, Medical College of Wisconsin, Milwaukee, WI

5. **AWARDS AND HONORS**

1981	Merit Scholarship, University of Delhi.
1986	National Research Scholarship, University Grants Commission, India
1986-1992	Research Scholar Fellowship, Tata Institute of Fundamental Research, Bombay, India
2008	NIH travel award in recognition of excellence of submitted abstract, International Federation of Placenta association (IFPA)
2009-2011	Basil O'Connor Starter Scholar Award, March of Dimes
2009-2012	Scientist Development Award, American Heart Association Foundation
2015	Elected Fellow of the American Heart Association

6. **MEMBERSHIP IN PROFESSIONAL SOCIETIES**

2007-current	American Society of Hematology (ASH)
2007-current	American Heart Association (AHA)
2007-current	International Society of Thrombosis and Haemostasis (ISTH)
2008-current	International Federation of Placenta Association (IFPA)
2010-current	Society for the Study of Reproduction (SSR)

7. **INVITED JOURNAL REVIEWS**

2004-current	<i>Ad hoc</i> referee, <i>Thrombosis and Haemostasis</i>
2008-current	<i>Ad hoc</i> referee, the <i>Journal of Thrombosis and Haemostasis</i>
2009-current	<i>Ad hoc</i> referee, <i>Reproductive Biology and Endocrinology</i>
2013-current	<i>Ad hoc</i> referee, <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i>
2014-current	<i>Ad hoc</i> referee, <i>PLOS Genetics</i>
2014-current	<i>Ad hoc</i> referee, <i>PLOS ONE</i>

8. **NATIONAL PEER REVIEW SERVICES**

2012, February	<i>Ad Hoc</i> Member, NIH Hemostasis & Thrombosis (HT) Study Section, Center for Scientific Review, National Institutes of Health
2013, March	Member, NIH Vascular & Hematology Special Emphasis Panel, ZRG1 VH-C 90, Center for Scientific Review, National Institutes of Health

2014, October	<i>Ad Hoc</i> Member, NIH Hemostasis & Thrombosis (HT) Study Section, Center for Scientific Review, National Institutes of Health
2015-current	Member, American Heart Association Basic Science I Peer Review Committee
2016, January	Member, Endocrinology, Metabolism, Nutrition and Reproductive Sciences Special Emphasis Panel ZRG1, Center for Scientific Review, National Institutes of Health

9. LOCAL (MCW) PEER REVIEW SERVICES

2013, Feb-April	Reviewer, Women’s Health Research Program (WHRP) pilot research grants
2013, Sept- current	Reviewer, MCW Research Day posters by Clinical Fellows, Residents and junior faculty
2014, Jan-Feb	Reviewer, CRI Vascular Biology/Hematology Unit pilot research grants
2014, August- current	Reviewer, Cancer Center Seed Grants
2014, August- current	Reviewer, Basic Science Seed Grants

10. LOCAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS

2014, July- current	Member, Program Evaluation Committee, Medical College of Wisconsin
2014, May- current	Member, Basic Science Seed Grant Review Committee
2014, July- current	Member, Council for Women’s Advocacy
2015, July- current	Member, Research Affairs Committee

11. PEER REVIEWED RESEARCH GRANTS/AWARDS

Active

National Institutes of Health Award # 1 R01 HL112873-01A1

Title:	Role of Maternal Platelets in the Placenta and Pregnancy Complications
Source:	NHLBI (NIH)
Role:	Principal Investigator
Dates:	08/01/2013 – 05/31/2017

Children’s Research Institute Pilot Innovative Research Grant

Title:	Molecular Signatures of a Healthy Pregnancy
Source:	Children’s Research Institute (CRI)
Role:	Principal Investigator
Dates:	01/01/2016 – 12/31/2016

Women’s Health Research Program Pilot Grant

Title:	Human Placenta: The MCW Initiative
Source:	Women’s Health Research Program (WHRP)
Role:	Co-PI

Dates: 07/01/2015 – 12/31/2016

Completed

Basil O' Connor Starter Scholar Award #5-FY09-120

Title: Role of Maternal Platelets in Placental Malfunction and Pregnancy Complications
Source: March of Dimes (Basil O'Connor grant)
Role: Principal Investigator
Dates: 02/01/2009 – 01/31/2011

Scientist Development Grant #0930200N

Title: Platelet Function in Thrombophilia-Associated Vascular Disorder
Source: American Heart Association (National Program)
Role: Principal Investigator
Dates: 01/01/2009 – 12/31/2012

11. INVITED LECTURES AND WORKSHOP PRESENTATIONS

International

- “*Thrombophilia and Pregnancy Disorder: Unique Biology of the Placental Vascular Bed*”. Invited seminar at the Institute of Microbial Technology (IMTECH), Chandigarh, India (August, 2008)
- “*Lessons from Gene Targeting of Coagulation Proteins in Mice*”. Invited talk at The 3rd International Symposium on Women's Health Issues in Thrombosis and Haemostasis, Prague, Czech Republic (February, 2009)
- “*Maternal Platelet Response to Thrombin Regulates Placental Development and Fetal Growth in a Murine Model of Thrombophilia-Associated Pregnancy Loss*”. Invited talk at the “Thrombosis and fibrinolysis in Placenta/still birth” workshop at the 2012 meeting of the International Federation of Placenta association (IFPA), Hiroshima, Japan (September, 2012)
- “*Of Mice and Women: Coagulation Abnormalities in the Placenta*”. Invited seminar at the Indian Institute of Science Education & Research (IISER) Mohali, India (August 2013)
- “*Of Mice, Women, Placenta and You: How coagulation abnormalities affect placental function?*” Invited colloquium at the Department of Biochemistry, Panjab University, Chandigarh, India (August, 2013)

National

- “*Thrombophilia-Associated Pregnancy Loss: Involvement of Fetal Factors and Maternal Platelets*” Invited seminar at Kansas University Medical Center, Kansas, USA (June 2007)
- “*Of Mice and Women: How coagulation abnormalities affect placental function?*” – Invited talk at the Gill Heart Institute, University of Kentucky, Lexington, KY, USA (March 2015)
- “*Protein C Pathway, Platelets and Placentation*” – Invited talk at the FASEB conference on Proteases in Hemostasis and Vascular Biology, Denver, CO, USA (June 2015)

Local

- “*A Role of Platelets and the Par4 Receptor in Mouse Placentation*” – Invited seminar at the Department of Pathology, Medical College of Wisconsin, Milwaukee (September 2007).
- “*Placental Vascular Bed: Unique Biology and Clinical Implications*” – Invited seminar at the CRI Noon research conference, Children’s Research Institute, Milwaukee (October 2007)
- “*Placental Vascular Bed: Unique Biology and Clinical Implications*” – Invited seminar at the Pediatric Surgery Multidisciplinary Research Conference, Medical College of Wisconsin (November 2008)
- “*Thrombophilia-associated pregnancy disorders: Lessons from murine models*” – Invited seminar at the Department of Obstetrics & Gynecology, Women’s Health Research Program (WHRP) Seminar Series, Medical College of Wisconsin (March 2011)
- “*Of Mice, Women, Placenta and You*” – Invited seminar at the CRI Noon research conference, Children’s Research Institute, Milwaukee, Milwaukee (April 2013)
- “*Of Mice and Women: Coagulation in the Placenta*” – Invited presentation at the Department of Physiology Seminar Series, Medical College of Wisconsin (December 2013)
- “*Thrombomodulin-Protein C Pathway: An Essential Role in Placental Development and Function*” – Invited seminar at the Department of Obstetrics & Gynecology, Women’s Health Research Program (WHRP) Seminar Series, Medical College of Wisconsin (May 2014)
- “*Of Coagulation, Platelets and Placentation: Lessons from murine models*” – Invited seminar at the CRI Noon research conference, Children’s Research Institute, Milwaukee, Milwaukee (March 2016)

12. INVITED COMMUNITY PRESENTATIONS

- Discussion leader/Presenter at “Go Red for Women” event organized by the American Heart Association, Milwaukee (March 2011).
Community education about research at the Medical College of Wisconsin in an area related to women’s health
- Presenter, “A day in the life of a cardiovascular health researcher” at event organized by the American Heart Association, Milwaukee (May 2011).
Community awareness about how research is conducted and the importance of funding for women’s health research
- Short Presentation and discussion at a reception hosted by the American Heart Association, Milwaukee (Nov 2011).
Community awareness on research being conducted using American Heart Funds at the Medical College of Wisconsin.

- Discussion, Presentation and laboratory tour for “Go Red for Women” event organized by the American Heart Association, Milwaukee (March 2012)
Community education: Behind-the-scenes look at Women’s health research being conducted in a Milwaukee area laboratory.
- Presented and Co-led discussions in the session “Healthy Women=A Healthy Community” in MCW community engagement program, Kaleidoscope, sponsored by Advancing Healthier Wisconsin.

13. ORAL PRESENTATIONS AT CONFERENCES (selected based on the submitted abstract)

International

- “*Maternal Platelets and the Thrombin Receptor, Par4, disrupt placental morphogenesis and cause fetal loss in factor V Leiden mice.*” Oral presentation at the 21st Congress of the International Society on Thrombosis and Haemostasis, Geneva, Switzerland (July 2007).
- “*Attenuation of thrombin signaling, but not platelet aggregation, rescues fetal loss in a murine model of factor V Leiden-associated placental failure.*” Oral presentation at the 23rd Congress of the International Society on Thrombosis and Haemostasis, Kyoto, Japan (July 2011).
- “*Coagulation Factor Signaling in the Placenta: Presence and Functional Activity of an Integrated Coagulation Receptor System.*” Oral presentation at the 43rd Annual Meeting of American Society of Hematology, Orlando, Florida, U.S.A (December 2001).
- “*A Critical Role of Platelets and the Par4 Receptor in Developmental Growth Arrest of Thrombomodulin Null Embryos.*” Oral presentation at the 47th Annual Meeting of American Society of Hematology, Atlanta, Georgia, U.S.A (December 2005).

14. MEDICAL COLLEGE OF WISCONSIN TEACHING ACTIVITIES

Medical Student Education

- Spring 2014-current: Teaching faculty in M2 Endocrinology/Reproduction unit.

Graduate Student Education

- Fall 2013-current: Teaching faculty in graduate endocrinology course (Physiology 08210), Department of Physiology.
- 2013, July-current: Graduate Faculty, Interdisciplinary Program (IDP). Responsible for mentoring graduate students during their rotation and to serve as potential graduate advisor.

Teaching through Research discussions & Journal club forums

Participation in research and journal club forums, in addition to presenting in these forums, is an integral part of teaching and training of graduate and MD-PhD students, Post-doctoral Fellows and other members of the laboratory. Selected research talks and journal club presentations (2002-current) are listed:

- *“Coagulation Factor Signaling in the Placenta: Presence and Functional activity of an integrated coagulation receptor system”*
Blood Research Institute, Milwaukee (April 2002)
- *“Abnormal Hemostasis and Pregnancy Disorder: More than a clotting Issue”*
Blood Research Institute, Milwaukee (March 2003)
- *“Hemostasis at the Feto-Maternal Interface”*
Blood Research Institute, Milwaukee (October 2003)
- Presenter, Journal Club
Blood Research Institute, Blood Center of Wisconsin (Feb 2004)
- *“Role of Blood Coagulation Components in Development and Disease”*
Blood Research Institute, Blood Center of Wisconsin (Feb 2004)
- *“Thrombophilia-associated Fetal Loss: Epistasis of Fetal and Maternal Factors”*
Blood Research Institute, Milwaukee (March 2005)
- *“How much can we destroy a pathway and still keep learning from it?”*
Journal Club presentation, Blood Research Institute, Blood Center of Wisconsin (Nov 2005)
- Presenter, Journal Club
Blood Research Institute, Blood Center of Wisconsin (Dec 2005)
- *“Thrombophilia-associated Fetal Loss: Involvement of Maternal Platelets and Fetal factors”*
Blood Research Institute, Milwaukee (January 2006)
- *“Developing a murine model for in vivo assessment of human von Willebrand Factor mutations”*
Blood Research Institute, Milwaukee (September 2007)
- *“Platelets and the Par4 receptor play a role in mouse placentation”*
Blood Research Institute, Milwaukee (September 2007)
- *“Placental Vascular Bed: Unique Biology and Clinical Implications”*
Developmental Vascular Biology Meeting, Medical College of Wisconsin (November 2008)
- *“A mouse model of Thrombophilia-associated pregnancy disorder: What can we learn from this model?”*
Pediatric Pathology Research in Progress (PPRP), Children’s Research Institute (December 2008)
- *“Ongoing projects in our laboratory”*
Vascular Biology Meeting, Medical College of Wisconsin (August 2009)
- *“Ongoing Research and Review”*
Vascular Biology Interest Group (VBIG), Medical College of Wisconsin (September 2009)

- Presenter, Journal Club
Blood Research Institute, Blood Center of Wisconsin (October 2009)
- Presenter, Journal Club
Vascular Biology Meeting, Medical College of Wisconsin (November 2009)
- Presenter, Journal Club
Developmental Vascular Biology Meeting, Medical College of Wisconsin (February 2010)
- *“Platelets and vascular abnormalities in the placenta”*,
Vascular Biology Interest Group (VBIG), Medical College of Wisconsin (June 2010)
- Presenter, Journal Club
Developmental Vascular Biology Meeting, Medical College of Wisconsin (September 2010)
- *“Ongoing Research and Overview”*
Developmental Biology/Stem Cell Club, Department of Cell Biology, Neurobiology and Anatomy Medical College of Wisconsin, (February, 2011)
- *“Vascular and Coagulation Biology of the Placenta”*
Vascular Biology Interest Group (VBIG), Medical College of Wisconsin (September 2011)
- *“Vascular, Coagulation and Platelet biology of the Placenta”*
Clotters’ Club, Blood Research Institute, Milwaukee (November 2011)
- *“Coagulation and Platelet activity in the Placenta”*
Clotters’ Club, Blood Research Institute, Milwaukee (May 2012)
- *“Ongoing Research and Overview”*
Clotters’ Club, Blood Research Institute, Milwaukee (November 2012)
- *“Heparin rescues thrombophilia-associated placental failure independent of anticoagulation”*
Milwaukee Thrombosis and Hemostasis Lab Meeting (MTHLM), Blood Research Institute, Milwaukee Dec, 2012
- *“Ongoing Research”*
Developmental Vascular Biology Meeting, Medical College of Wisconsin (January 2013)
- *“Ongoing Research and Overview”*
Developmental Biology/Stem Cell Club, Medical College of Wisconsin, Department of Cell Biology, Neurobiology and Anatomy (January 2013)
- *“Ongoing Research”*
Clotters’ Club, Blood Research Institute, Milwaukee (May 2013)
- *“Ongoing Research”*

Milwaukee Thrombosis and Hemostasis Lab Meeting (MTHLM), Blood Research Institute, Milwaukee March, 2014

- “*Ongoing Research*”
Clotters’ Club, Blood Research Institute, Milwaukee (March 2014)
- “*Ongoing Research and Overview*”
Developmental Biology/Stem Cell Club, Medical College of Wisconsin, Department of Cell Biology, Neurobiology and Anatomy (March 2014)
- “*Molecular signatures of a healthy pregnancy: Identifying gestational syndromes*”
Vascular Biology Interest Group (VBIG), Medical College of Wisconsin (October 2014)
- “*Ongoing Research*”
Milwaukee Thrombosis and Hemostasis Lab Meeting (MTHLM), Blood Research Institute, Milwaukee May, 2015

15. **ADVISING AND MENTORING**

Peer Mentoring

- Invited talk, “Reclaiming Gold: Resubmitting Your R01” at K-club Rounds, Department of Pediatrics, Medical College of Wisconsin (November, 2015)
- 2015, July – current: Co-leader of Maternal-Fetal Placental Peer working group initiated at the Department of Obstetrics & Gynecology with a goal of building collaborative teams to solve clinical problems in Maternal-Fetal-Placental medicine.

Mentoring of Post-doctoral Fellows and junior scientists

- Vidhyalakshmi Arumugam, PhD, Post-doctoral Fellow (May 2010-Dec 2012)
- Jianzhong An, MD, Research Associate (July 2010-Sept 2015)
- Qiuhui Yang, PhD, Research Scientist (July 2013-current)
- Served on the Council for Women’s Advocacy subcommittee to craft “ADVANCE: From Postdoc to Faculty”, a program initially directed at female post-doctoral fellows with the goal of retaining more women in the scientific pipeline. Co-led sessions on “Running a lab” and Finding your niche and marketing your science”. This program has now run by the Office of Postdoctoral Education and opened to all genders.
- Anna McCormick, MD, Maternal-Fetal Medicine Fellow; Member of her thesis committee (January 2016-current).

Graduate Student Mentees

- Marianne Escobar-Klumpp, IDP graduate program rotation student (Aug-Sept, 2013)
- Michelle Storage, IDP graduate program rotation student (Aug-Sept, 2014)
- Michelle Storage, Graduate student (May 2015-current)

Medical Student Mentoring:

- Anne Layno-Moses (Aug 2009-May 2010), MCW GURU program

- Brodie Marthaler (Aug 2009-May 2010), MCW GURU program
- Kristen Chen (summer 2016), Medical student Summer Research training

Research Technologist Mentees

- Magarya Waitara, Research Technologist (Sept 2008-July 2010)
- Britta Binek, Research Technologist (Aug 2008-May 2009)
- Michelle Bordas, Research Technologist (2009-current)
- Gwen Werra, Research Technologist (Feb 2010-June 2011)

Undergraduate Mentees

- Mike Romas, Summer Intern (July-Aug, 2010); Undergraduate, University of Wisconsin, Madison
- Jennifer Dhanwantri, Intern (June-July, 2014); Biotechnology Certificate Program, Milwaukee Area Technical College, Milwaukee, Wisconsin; Selected through the BEST (Biochemical Excellence in Science and Technology) grant.
- Kevin Banks, Intern (May-July, 2015); Selected through the Diversity Summer Health Related Research Education Program (DSHREP), Medical College of Wisconsin

High School Mentees

- Laconia High School SMART team, Rosendale, WI (2012-2013):
 Cole Tidemann
 Brady Beekman
 Amanda Leichtfuss
 Alex Parsons
 Jonathan Opheim
 Ashley Garb
 Noah Henke

Students Modeling A Research Topic (SMART) is a program initiated by Milwaukee School of Engineering's Center for BioMolecular Modeling. Students work closely with their mentor to learn about their research topic, construct a physical model of a protein related to the research topic, write an abstract and prepare a poster and a 10 minute oral presentation. Participating schools compete for travel awards to present their models and posters at the American Society for Biochemistry and Molecular biology (ASBMB) conference.

- Archit Baskaran, student of Brookfield East High School, Brookfield, WI (summer 2013)
- Smita Nayak, student of Nicolet High School, Glendale, WI (Science fair project, 2015-16)
- Alli Biskowitz, student of Shorewood High School, Shorewood, WI (summer 2015 and 2016)
- Katie Storage, student of Riverside-Brookfield High School, Riverside, IL (summer 2016)

16. COMMUNITY OUTREACH

- Presentation to students from Milwaukee Area Technical College (MATC) to expose them to careers in Medical science (October 2013).
- Laboratory tour and lecture to local high school students to expose them to a careers in science and a glimpse of how scientific discoveries are made (January, 2015).

- Mentor in the Engaging Girl's in Science (EgGS) initiative of community members to expose high school girls to women in STEM professions (2015, 2016)

17. PUBLICATIONS

Original Peer Reviewed Research Articles

1. Chakrabarti SR, Sood R, Ganguly S, Bohlander S, Shen Z and Nucifora G: Modulation of TEL transcription function by interaction with the ubiquitin conjugating enzyme UBC9. **Proc Nat. Acad. Sc. (USA)** 96, 7469-7472 (1999).
<http://www.ncbi.nlm.nih.gov/pubmed/10377438>
2. Sitailo S, Sood R, Barton K. and Nucifora G: Forced expression of the leukemia-associated gene EVI1 in ES cells: A model for myeloid leukemia with 3q26 rearrangements. **Leukemia** 13(11): 1639-1645 (1999).
<http://www.ncbi.nlm.nih.gov/pubmed/10557037>
3. Sood R, Talwar-Trikha A, Chakrabarti SR and Nucifora G: MDS1/EVI1 enhances TGF-beta 1 signaling and strengthens its growth-inhibitory effect, but the leukemia-associated fusion protein AML1/MDS1/EVI1, product of the t(3;21), abrogates growth-inhibition in response to TCF-beta 1. **Leukemia** 13(3): 348-357 (1999).
<http://www.ncbi.nlm.nih.gov/pubmed/10086725>
4. Chakrabarti SR, Sood R, Nandi S and Nucifora G: Posttranslational modification of TEL and TEL/AML1 by SUMO-1 and cell-cycle-dependent assembly into nuclear bodies. **Proc. Nat. Acad. Sc. (USA)** 97 (24): 13281-13285 (2000).
<http://www.ncbi.nlm.nih.gov/pubmed/11078523>
5. Kerlin BA, Yan BS, Isermann BH, Brandt JT, Sood R, Basson BR, Joyce DE, Weiler H and Dhainaut, JF: Survival advantage associated with heterozygous factor V Leiden mutation in patients with severe sepsis and in mouse endotoxemia. **Blood** 102 (9): 3085-92 (2003).
<http://www.ncbi.nlm.nih.gov/pubmed/12869495>
6. Isermann BH, Sood R, Pawlinski R, Zogg M, Kalloway S, Degen JL, Mackman N, and Weiler H: The thrombomodulin-protein C system is essential for the maintenance of pregnancy. **Nature Med.** 9(3):331-337 (2003).
<http://www.ncbi.nlm.nih.gov/pubmed/12579195>

[Article discussed in News and Views. Ruf W: Par1 signaling: more good than harm? **Nature Med.** 9(3):258-60 (2003)] <http://www.ncbi.nlm.nih.gov/pubmed/12612568>
7. Kerlin BA, Cooley BC, Isermann BH, Hernandez I, Sood R, Zogg M, Hendrickson SB, Mosesson MW, Lord S and Weiler H: Cause-effect relation between hyperfibrinogenemia and vascular disease. **Blood** 103(5):1728-34 (2004).
<http://www.ncbi.nlm.nih.gov/pubmed/14615369>

8. Sood R, Kalloway S, Mast AE, Hillard CJ and Weiler H: Fetomaternal cross talk in the placental vascular bed: control of coagulation by trophoblast cells. **Blood** 107(8):3173-80 (2006).
<http://www.ncbi.nlm.nih.gov/pubmed/16380449>

[Article accompanied by editorial commentary. Gris J-C: Trophoblast cells sense maternal hemostasis. **Blood** 107(8):3019-20 (2006).]
<http://bloodjournal.hematologylibrary.org/content/107/8/3019.full>
9. Sood R*, Zogg M, Westrick RJ, Guo Y, Kerschen EJ, Girardi G, Salmon JE, Coughlin SR and Weiler H: Fetal gene defects precipitate Platelet mediated pregnancy failure in factor V Leiden mothers. **J. Exp. Med.** 204(5):1049-56 (2007). (*Co-Corresponding author)
<http://www.ncbi.nlm.nih.gov/pubmed/17438064>

[Article accompanied by editorial news story: Avoiding fetal loss. **J Exp. Med.** 204(5):966 (2007)]
<http://jem.rupress.org/content/204/5/966a.full>
10. Kerschen EJ, Fernandez JA, Cooley BC, Yang XV, Sood R, Mosnier LO, Castellino FJ, Mackman N, Griffin JH and Weiler H: Endotoxemia and Sepsis Mortality Reduction by Non-anticoagulant Activated Protein C. **J. Exp. Med.** 204(10):2439-48 (2007).
<http://www.ncbi.nlm.nih.gov/pubmed/17893198>
11. Maroney SA, Cooley BC, Sood R, Weiler H and Mast AE: Combined Tissue Factor Pathway Inhibitor and Thrombomodulin deficiency produces an augmented hypercoagulable state with tissue fibrin deposition. **J. Thromb. Haemost.** 6(1):111-7 (Jan 2008).
<http://www.ncbi.nlm.nih.gov/pubmed/17973652>
12. Sood R*, Sholl L, Isermann B, Zogg M, Coughlin SR and Weiler H: Maternal Par4 and platelets contribute to defective placenta formation in mouse embryos lacking thrombomodulin. **Blood** 112(3):585-91 (Aug 2008); (*Co-Corresponding author)
<http://www.ncbi.nlm.nih.gov/pubmed/18490515>
13. Guo YH, Hernandez I, Isermann B, Kang TB, Medved L, Sood R, Kerschen EJ, Holyst T, Mosesson MW and Weiler H: Caveolin-1-dependent apoptosis induced by fibrin degradation products. **Blood** 113(18):4431-9 (2009)
<http://www.ncbi.nlm.nih.gov/pubmed/19074731>
14. An J, Waitara M, Bordas M, Arumugam V, Hoffmann RG, Petrich BG, Sinha U, North P, Sood R*: Heparin rescues factor V Leiden-associated placental failure independent of anticoagulation in a murine high risk pregnancy model. **Blood** 121(11):2127-34 (2013); (*Corresponding author)
<http://www.ncbi.nlm.nih.gov/pubmed/23325830>

[Article accompanied by editorial commentary. Drewlo S: Heparin – not only thinning the blood. **Blood** 121(11):1932-3 (2013).]

<http://www.ncbi.nlm.nih.gov/pubmed/23493771>

[Article highlighted on the cover page and selected by the Editor-in-Chief for the weekly snapshot of “hottest” studies in the American Society of Hematology newsroom]

<http://www.hematology.org/News/2013/10067.aspx>

Book Chapters and Invited Reviews

15. Marmioli S, Bavelloni A, Faenza I, Sood R, Santi S, Cechi S, Maraldi NM, and Ognibene A: Interleukin 1 α and Tumor Necrosis Factor- α modulate the nuclear phosphoinositide signaling system. In **Signaling Mechanisms: Transcription Factors to Oxidative Stress**, ed. Lester Packet & Katel W. A. Writz, Springer-Verlag (1995).
16. Sood R* and Weiler H: Embryogenesis and gene targeting of coagulation factors in mice. **Best Practice & Research Clinical Haematology** 16(2): 169-81 (2003). (*Corresponding author)
<http://www.ncbi.nlm.nih.gov/pubmed/12763485>
17. Sood R, Kalloway S, Mast AE and Weiler H: Thrombophilia and pregnancy failure: fetomaternal interactions in the vascular bed of the placenta. **Thromb Res.** 115 (supplement 1): 92-4 (2005).
<http://www.ncbi.nlm.nih.gov/pubmed/15790167>
18. Weiler H and Sood R: Endothelial mimicry of placental trophoblast cells. In **The Endothelium: A comprehensive Reference**, ed. William Aird, Cambridge University Press, pp 1479-87 (2007).
<http://ebooks.cambridge.org/chapter.jsf?bid=CBO9780511546198&cid=CBO9780511546198A169>
19. Sood R*: Thrombophilia and fetal loss: Lessons from gene targeting in mice. **Thromb Res.** 123 (supplement 2): S79-S84 (2009). (*Corresponding author)
<http://www.ncbi.nlm.nih.gov/pubmed/19217483>
20. Chun CZ, Sood R, and Ramchandran R: Vasculogenesis and Angiogenesis. In **Vascular Tumors and Developmental Malformations: Pathogenic Mechanisms and Molecular Diagnosis**, Editors North P.E. and Sander T. 2016, Springer New York, NY, p.77-99.

Symposium Proceedings, Peer Reviewed Abstracts & Poster Presentations (Selected)

Published abstracts are cited. Presentations were oral when indicated.

International

1. Chakrabarti S R, Sood R, Ganguly S, Bohlander S and Nucifora G: Modulation of TEL transcriptional function by interaction with UBC9. **40th Annual Meeting of American Society of Hematology, Miami, Florida, U.S.A.** Abstract in **Blood** 92 (10): 2440 (1998).

2. Sood R, Sitailo S, Barton K and Nucifora G: Forced expression of the leukemia-associated gene EVI1 in ES cells: A model for myeloid leukemia with 3q26 rearrangements. **41st Annual Meeting of American Society of Hematology, New Orleans, Louisiana U.S.A.** Abstract in **Blood** 94 (10): 241 (1999).
3. Chakrabarti S R, Sood R, Nandi S and Nucifora G: Post-translational modification of TEL by SUMO-1 and cell cycle-dependent assembly into novel nuclear bodies. **42nd Annual Meeting of American Society of Hematology, San Francisco, California, U.S.A.** Abstract in **Blood** 96 (11): 2150 (2000).
4. Sood R, Kerlin BA, Isermann B, Kalloway SM and Weiler H: Coagulation factor signaling in the placenta: Presence and functional activity of an integrated coagulation receptor system. **43rd Annual Meeting of American Society of Hematology, Orlando, Florida, U.S.A.** Abstract in **Blood** 98 (11): 1870 (2001). Selected for oral presentation.
5. Isermann B, Sood R and Weiler H: The blood coagulation regulator thrombomodulin modulates proliferation and cell death of placental cells. **44th Annual Meeting of American Society of Hematology, Washington, DC, U.S.A.** Abstract in **Blood** 100 (11): 2730 (2002). Selected for oral presentation.
6. Sood R, Zogg M and Weiler H A critical role of Platelets and the Par4 receptor in developmental growth arrest of thrombomodulin null embryos. **47th Annual Meeting of American Society of Hematology, Atlanta, Georgia, U.S.A.** Abstract in **Blood** 106 (11): 529 (2005); Selected for oral presentation.
7. Sood R, Hendrikson SB, Kalloway SM, Zogg M, Guo Y, Mast AE and Weiler H. Thrombophilia associated fetal loss: Epistasis of fetal and maternal factors. **The International Society on Thrombosis & Haemostasis 20th Congress, Sydney, Australia.** Abstract in **Journal of Thrombosis and Haemostasis** volume 3, supplement 1: PO402 (2005).
8. Sood R, and Weiler, H. Animal model of fetal loss in factor V Leiden carriers: pathogenic mechanism and therapeutic targets. **2nd International Symposium on Women's Health Issues in Thrombosis and Haemostasis, Vienna, Australia.** Extended abstract in **Thrombosis Research** volume 119, supplement 1, pages S1-S2 (2007)
<http://www.sciencedirect.com/science/journal/00493848/119/supp/S1>
9. Sood R, Zogg M, Westrick RJ, Guo Y, Kerschen EJ and Weiler, H. Maternal Platelets and the Thrombin Receptor, Par4, disrupt placental morphogenesis and cause fetal loss in Factor V Leiden mice. **The International Society on Thrombosis & Haemostasis 21st Congress, Geneva, Switzerland.** Abstract #O-W-004 in the **J. Thromb Haemost** 5 (Supplement 2) (2007); Selected for oral presentation.
10. Sood R, Sholl L, Isermann B, Zogg M, Coughlin SR and Weiler H. Maternal Platelets and Par4 contribute to defective placenta formation in mouse embryos lacking thrombomodulin. **Arteriosclerosis, Thrombosis & Vascular Biology 2008 Annual Conference.** Abstract # P260 in **Arteriosclerosis, Thrombosis and Vascular Biology**; 28 (6):e32-e149 (2008).
<http://atvb.ahajournals.org/content/28/6/e32.full.pdf>

11. Sood R, Cooley B, Zogg M, Lindner V and Weiler H. Thrombomodulin function in injury-induced arterial remodeling. **Arteriosclerosis, Thrombosis & Vascular Biology 2008 Annual Conference**. Abstract # P94 in **Arteriosclerosis, Thrombosis and Vascular Biology**; 28 (6):e32-e149 (2008).
<http://atvb.ahajournals.org/content/28/6/e32.full.pdf>
12. Sood R, Waitara MS, Ann J, Bordas M, Petrich BG. Attenuation of thrombin signaling, but not platelet aggregation, rescues fetal loss in a murine model of factor V Leiden- associated placental failure. **The International Society on Thrombosis & Haemostasis 23rd Congress, Kyoto, Japan (2011)**. Abstract in the **J. Thromb Haemost** 9 (Supplement 2), page 753: Abstract #O-TH-096; Selected for oral presentation.
<http://onlinelibrary.wiley.com/doi/10.1111/j.1538-7836.2011.04380.4.x/pdf>
13. An J, Arumugam V, Bordas M and Sood R. Maternal Platelet response to thrombin regulates placental development and fetal growth in a murine model of thrombophilia-associated pregnancy loss. **The International Federation of Placenta Associations (IFPA) meeting, Hiroshima, Japan (2012)**. Abstract in **Placenta** 33 (9), page A97: Abstract #P2.37
<http://download.journals.elsevierhealth.com/pdfs/journals/0143-4004/PIIS0143400412002548.pdf>
14. Arumugam V, An J, Bordas M and Sood R. Thrombin activation of maternal platelets causes placental developmental failure through a mechanism independent of thrombosis in a murine high-risk pregnancy model. **The International Federation of Placenta Associations (IFPA) meeting, Whistler, Canada (2013)**. Abstract in **Placenta** 34 (9), page A83: Abstract #P2.79
[http://www.placentajournal.org/article/S0143-4004\(13\)00519-5/pdf](http://www.placentajournal.org/article/S0143-4004(13)00519-5/pdf)
15. Arumugam V, An J, Bordas M and Sood R. An Experimental Model of Platelet Activation at the Feto-Maternal Interface. **56th Annual Meeting of American Society of Hematology, San Francisco, California, U.S.A.** Abstract in **Blood** 124 (21): 2766 (2014).
<http://www.bloodjournal.org/content/124/21/2766>
16. Storage M, An J, Liang H, Yang Q, Zogg M, Zhan M, Weiler H and Sood R. Genetic absence of thrombin receptor Par4 overcomes the obligate requirement of EPCR in mouse placenta. **57th Annual Meeting of American Society of Hematology, Orlando, Florida, U.S.A.** Selected for oral presentation. Presented by graduate student, Michelle Storage.

National

17. Sood R, Zogg M, Guo Y, Kerschen E and Weiler H. Genetic modifiers of fetal loss in factor V Leiden carriers: Vascular bed-specific gene-gene interactions and pathogenic mechanisms in the placenta. **Gordon conference on Hemostasis, Waterville, Maine (2006)**.
18. Ann J, Waitara MS, Bordas M, Werra G, Petrich BG and Sood R. Attenuation of thrombin signaling, but not platelet aggregation, rescues fetal loss in a murine model of factor V Leiden- associated placental failure. **FASEB conference on Proteases in Hemostasis and Vascular Biology, Carefree, Arizona (2011)**.
19. An J, Arumugam V, Bordas M and Sood R. Thrombin activation of maternal platelets disrupts placentation in mice in the absence of thrombosis. **Gordon conference on Hemostasis, Waterville, Maine (2014)**.

20. An J, Arumugam V, Bordas M and Sood R. Platelet-Par4 and Platelet-factor V play critical roles in disrupting placentation in a murine thrombophilia model. **15th Biennial Midwest Platelet Conference (2014)**.

Local

21. Sood R, An J, Waitara M, Bordas A, Arumugam V, Hoffmann R, Petrich B, Sinha U and North P. Heparin rescues thrombophilia-associated placental failure independent of anticoagulation in a murine high-risk pregnancy model. **Medical College of Wisconsin Research Day (2012)**
22. Arumugam V, An J, Bordas M, North P and Sood R. Examining the role of maternal platelets in thrombophilia-associated placental failure and fetal death. Presented by Post-doctoral Fellow V. Arumugam at the **Medical College of Wisconsin 22nd Annual Graduate School Research Poster Session (2012)**