

**SEONG K. MUN**  
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### **Positions and Employment**

2011- President and CEO, Open Source Electronic Health Record Agent (OSEHRA), a not for profit agency established by the Department of Veterans Affairs and Department of Defense to bring rapid innovation to health information technology

2008- Director of Arlington Innovation Center for Health Research and Professor of Physics, Virginia Polytechnic Institute and State University, National Capital Region, Arlington, VA

2008- Adjunct Professor of Radiology, Georgetown University Medical Center, Washington, DC

2004-2008 Associate Vice President for Special Programs, Georgetown University Medical Center Office of Federal Relations, Georgetown University, Washington, DC

1998-2004 Director, Special Initiatives (Federal Relations), Georgetown University Medical Center,

1984-2008 Director, Imaging Science and Information Systems (ISIS) Center, Professor of Radiology, Georgetown University Medical Center, Washington, DC

1983-1984 Assistant Professor, Managing NMR Physicist, Columbia University–Philips Medical Systems 1.5T MRI R and D Project; Neurological Institute of New York, Columbia Presbyterian Hospital, New York, NY

1982-1983 Director, Division of Imaging Physics, Assistant Professor of Radiology, Department of Radiology, Georgetown University Hospital, Washington, DC

1981-1983 Assistant Professor of Radiation Medicine, Georgetown University Medical Center

1979-1981 Summer Research Fellow–MRI Lab of P. Lauterber, PhD- Nobel Laureate; Stony Brook, NY

### **Other Experience and Professional Memberships**

Founder: International Conference: Image Management and Communication System (1989-2004) Meeting held in Washington, DC, Kyoto Japan, Seoul, Korea, Honolulu, HI

Organizer/  
Chair National Forum: Telemedicine On-Line Today, March 1995-96; Washington, DC  
Pacific Medical Technology Symposium, August 1998, Honolulu, HI  
Network Security Workshop, April, 2006, Washington, DC  
Distributed Care and Home Care: IEEE-EMBS Special Symposium, April 2006  
Multicenter Information Management Symposium (2006-2007)  
National Forum in the Future of Defense Health Information Technology – DC- 2008  
Organizing Committee, Traumatic Brain Injury Imaging Workshop, 2008, St. Louis.  
Workshop on Medical Home, Alexandria, VA – 2010  
Workshop on Neuro-Performance and Imaging, Alexandria, VA, 2010  
Co-Chair: Workshop- Open Source Software and Military Health Service (2011)  
Co-chair, IEEE-AMA Medical Technology Symposium on Health Informatics (2010 - )

President: Board of Scientific Counselors, National Library of Medicine, NIH, 1992-1996

Fellow: American Institute of Medical and Biological Engineering

Member: Editorial Board of Int. Journal of Computer-Assisted Radiology and Surgery  
Editorial Board of Journal of Telemedicine and e-Health  
Editorial Board of Frontiers in Cancer Research

Guest Editor IEEE Transactions on Information Technology in Biomedicine (TITB) -2007

Guest Editor Journal of Military Medicine Supplement of Health Information Tech -2008

Head: Consulting Team for Digital Conversion of Coal Workers' Health Surveillance Program, National Institute for Occupational Health and Safety, Center for Disease Control and Prevention (2009-2011 )

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Sr. Member Consulting for the Developing Research Management Enterprise Systems (RMES) for US Army Medical Research and Material Command, Ft. Detrick, MD (2009-2011 )  
Member: Member of the Board for Particle Therapy Institute of Cure Foundation (2010- )  
Member: Advisory Board, Department of Electrical Engineering, Catholic University of America  
Member: Treasure and Member of the Ex. Board of American Telemedicine Association (2007 -2011)  
Patent: Internet-based Diabetes Management System, MyCareTeam (Awarded in 2010)

### **Awards**

1998 Global IT Infrastructure Award on Deployable Radiology for US Troops in Bosnia, 1998  
2007 General Maxwell Thurman Award for Excellence in Telemedicine & Advanced Medical Technology USAMRMC, US Army (Previous winner includes Dr. Cassells, former Assistant Secretary of Defense – Health Affairs)

### **Military Service**

1973-76 Enlistee- Army of Republic of Korea

### **Peer-Reviewed Publications or Manuscripts in Press**

- Turner, J, Robinson, James, Tian, Yan, Neustadt, Aland, Russell, Marie, Mun, Seong, Can Messages make a Difference? Association between e-mail messages and health outcomes in diabetes patients, ' Journal of Human Communication (Accepted for publication July 2012)
- Marshall R, Doperak M, Milner M, Motsinger C, Newton T, Padden M, Pastoor S, Hughes CL, LeFurgy J, and Mun SK.; Medical Home: An Emerging Primary Care Model and the Military Health System, Journal of Military Medicine. Vol 176, Number 11, Nov 2012, pp1253-1259(7)
- Green E, Wendland J, Carver MC, Hughes CL, and Mun SK.; Lessons Learned from Implementing the Patient-Centered Medical Home, Health Expectations; International Journal of Telemedicine, <http://www.hindawi.com/journals/ijta/2012/103685/>
- Leventhal T, Taliafero J, Wong KH, Hughes CL, and Mun SK. (accepted May 2011) The Patient Centered Medical Home and Health Information Technology, Journal of Telemedicine and e-Health. March 2012 18(2); 145-149
- Hughes CL, Marshall R, Murphy E, and Mun SK. (accepted Jan 2011) Technologies in the Patient Centered Medical Home: Examining the Model from an Enterprise Perspective, Journal of Telemedicine and e-Health
- Benzinger, T, Brody, D, Cardin S, Curley, K, Mintun M., Mun, SK, Wong K.,Wrathall.J, Blast-Related Brain Injury: Imaging for Clinical and Research Applications, JOURNAL OF NEUROTRAUMA 26:2127–2144 (December 2009)
- Weng, C, Levine, B., Min, SK, Software Architecture and Engineering for Patient Records; Current and Future, Military Medicine, Vol 174,27-34 Supplement, May 2009
- Mun, SK, Pak, H, Clyburn, C., Collmann, J., Tohme, W. and Levine, B, The Executive Summary of the National Forum on the Future of Defense Health Information System, Military Medicine, Vol 174,1-3 Supplement, May 2009
- Govoni, S, Vasilescu, E, Padh, S, Dorobantu, M, Mun, SK, WS/PIDS: Standard Interoperable PIDS in Web Services Environments," IEEE Transactions on Information Technology in Biomedicine (TITB), 12 (1): 94-99(2008)
- Mun, SK, and Prior, F, Image Management in Enterprise Environment in Healthcare, IEEE Transactions on Information Technology in Biomedicine (TITB) Vol. 11, 1-5 (2007)
- Mun, SK, Tohme, W, Choi, I, "Teleradiology and Business Models, Journal of Telemedicine and Telecare," 2005; 11;271-275.
- "Managing Diabetes Using MyCareTeam Internet Application", BA Levine, S Clement, MJT Hu, A Alaoui, SK Mun, On the Cutting Edge, Spring 2001, Vol 22, No. 2, pp. 9-11.
- "Impact of MyCareTeam for Poorly Controlled DM", KE Smith, B Levine, SC Clement, MJ Hu, A Alaoui, SK Mun. Diabetes Technology and Therapeutics, 2004, Vol 6. 828-835.

- "Home Monitoring bei Diabetikern – Erfahrungen mit einer web-basierten Lösung" BA Levine, A Alaoui, M-J Hu, K Smith, S Clement, A Neustadtl, SK Mun, Health Academy, HvW Niederlag, A Bolz, an HU Lemke eds., Dresden-Friedrichstadt General Hospital, 01/2002, pp. 62-68.
- "Media Attitudes vs. Use: The Contribution of Context to the Communication Environment in Telemedicine", JW Turner, JD Robinson, A Alaoui, J Winchester, A Neustadtl, BA Levine, J Collmann, SK Mun, Health Care Management Review, Lippincoll Williams & Wilkens, Apr – Jun 2003, Vol 28, No. 2, pp. 95-106.
- "Doctor and Patient Interactions During Telemedicine: Clashes of Perceptions and Reality", JW Turner, JD Robinson, A Alaoui, J Winchester, A Neustadtl, BA Levine, J Collmann, SK Mun, In Understanding Health Communication Technologies, P. Whitten and D. Cook, (Eds.) Jossey-Bass, John Wiley & Sons, Inc., 2004, pp 118-126
- "Assessment of the Integration of a HIS/RIS with a PACS", BA Levine, SK Mun, HR Benson, SC Horii, In. Classic Papers in Modern Diagnostic Radiology, AMK Thomas, AK Banerjee, & U Busch (Eds.) Springer, 2005, pp 367-376. (reprinted article from 2003)
- "Understanding the communicative context created through telemedicine interactions" JW Turner, JD Robinson, A Alaoui, J Winchester, A Neustadtl, B Levine, J Collmann, SK Mun, In Health Communication (Gesundheitskommunikation), A. Schorr (Ed.) Verlag, Gottingen, Germany, Hogrefe & Huber Publishers.
- Cleary K, Clifford M, Freedman M, Zeng J, Mun SK, Watson V, Henderson F. Technology improvements for image-guided and minimally invasive spine procedures. IEEE Transactions on Information Technology in Biomedicine, 2002. Vol. 6, No. 4, pp. 249-261.
- Opell, J. Zeng, J. Bauer, R. Connelly, W. Zhang, I. Sesterhenn, S. K. Mun, J. Moul, and J. Lynch, "A 24 zonal distribution of prostate cancer using 281 3-d computer radical prostatectomy specimen models", accepted for publication, Prostate Cancer and Prostatic Diseases, August, 2001.
- J. Zeng, J. Bauer, W. Zhang, I. Sesterhenn, R. Connelly, J. Lynch, J. Moul and S.K. Mun, Prostate biopsy protocols: 3-D visualization-based evaluation and clinical correlation, Computer Assisted Surgery, 6:14-21, June 2001.
- Cleary, K., Anderson, J.,... Mun, SK, Final Report of the Technical Requirements for Image-Guided Spine Procedures Workshop, Computer Aided Surgery 5:180-215 (2000)
- J. Zeng, J. Bauer and S. K. Mun, "Modeling and mapping of prostate cancer", Computers and Graphics, Vol: 24:5, Pages 683-694, October 2000.
- Bauer J, Zeng J, Zhang W, McLeod DG, Sesterhenn IA, Connelly RR, Mun SK, Moul JW: "Lateral biopsies added to the traditional sextant prostate biopsy pattern increases the detection rate of prostate cancer", Prostate Cancer and Prostatic Diseases, 3:43-46, August 2000.
- J. Bauer, J. Zeng, J. Weir, W. Zhang, I. Sesterhenn, R. Connelly, S. Mun and J. Moul, "In 3-D computer simulated prostate models lateral prostate biopsies increase the detection rate of prostate cancer", Urology. 53: 961-967, 1999
- Mun, SK, and Turner, J, Telemedicine: Emerging e-medicine, Ann Rev Biomed Eng. 1999, 01:789-610,
- Lee S, Mun SK, Jha P, Levine B and Ro D, Telemedicine: Challenges and Opportunities, Journal of High Speed Networks 9 (2000) 15-30, IOS Press
- Tsujii O, Freedman MT, Mun SK. Lung contour detection in chest radiographs using 1-D convolutional neural networks. J. Electronic Imaging 1999. 8: 46-53.
- Tsujii O, Freedman, MT and Mun, SK; Anatomic Region-Based Dynamic Range Compression for Chest Radiographs Using Wrapping Transformation of Correlated Distribution, IEEE Transactions on Medical Imaging, Vol 17, No 3, pp 406-418, 1998
- Hasegawa, A., Lo, S.C., Lin, J.S., Freedman, M.T., and Mun, S.K., A Shift-Invariant Neural Network for the Lung Field Segmentation in Chest Radiography," J. of VLSI in Sign Proc Sys, 1998, Vol. 18, No. 3, pp. 241-250.
- Lo, S.C., Lin, J.S., Freedman, M.T., and Mun, S.K., Application Of Artificial Neural Networks To Medical Image Pattern Recognition: Detection of Clustered Microcalcifications on Mammograms and Lung Cancer on Chest Radiographs," J. of VLSI in Sign Proc Sys, 1998, Vol. 18, No. 3, pp. 241-250.

- Levine, B.A., Cleary, K.R., and Mun, S.K., "Experience Implementing a DICOM 3.0 multi-vendor teleradiology network," *Telemedicine Journal*, Vol. 4, No. 2, 1998.
- Winchester, J.F., Tohme, W.G., Schulman, K.A., and Mun, S.K., "Hemodialysis Patient Management by Telemedicine: Design and Implementation," *American Society of Artificial Organs Association (ASAIO) Journal*, Vol. 43, pp. M763-M766, 1997.
- Mun SK, Levine BA, Cleary K, and Dai H, "Deployable Teleradiology and Telemedicine for the US Military," *Computer Methods and Programs in Biomedicine*, Elsevier Science Ireland LTD., 57 (1998) 21-27
- Hayes WS, Tohme WG, Komo, D, and Mun SK, "A Telemedicine Consultative Service for the Evaluation of Patients With Urolithiasis," *Urology*, 1998 Jan; 51(1): 39-43
- Levine BA, Cleary, KR, and Mun SK, "Experience Implementing a DICOM 3.0 multi-vendor teleradiology network," *Telemedicine Journal*, Vol. 4, No. 2, 1998.
- Levine BA, Cleary KR, and Mun SK, "Deployable Teleradiology: Bosnia & Beyond." *IEEE Transactions on Information Technology and Biomedicine*, Vol. 2, No. 1, March 1998.
- Tohme, W.G., Winchester, J.F., Collmann, J. et al, "Remote Management of Hemodialysis Patients: Design and Implementation of a Telemedicine Network," *Journal of Minimally Invasive Therapy and Allied Technologies*, Vol. 6, No. 5-6, pp. 421-428, 1997.
- Tohme, W.G., Hayes, W.S., Winchester, J.F., and Mun, S.K., "Requirements for Urology and Renal Dialysis PC-Based Telemedicine Applications: A Comparative Analysis," *Telemedicine Journal*, Vol. 3, 1997.
- Dechant, H.K., Tohme, W.G., Mun, S.K., et al, "Health Systems Evaluation of Telemedicine: A Staged Approach," *Telemedicine Journal*, Vol. 2, No. 4, 1996.
- Lin, J.S., Lo, S.-C.B., Hasegawa, A., Freedman, M., and Mun, S.K., "Reduction of False Positives in Lung Nodule Detection Using a Two-Level Neural Classification," *IEEE Trans. on Med. Imaging*, Vol. 15, No. 2, April 1996.
- Wu, Y.C., Freedman, M., Hasegawa, A., Zuurbier, R.A., Lo, S.-C.B., and Mun, S.K., "Classification of Microcalcifications In Radiographs Of Pathological Specimen For The Diagnosis Of Breast Cancer," *Academic Radiology*, Vol. 2, pp.199-204, 1995.
- Lo, S-C.B., Lou, S.L., Lin, J.S., Freedman, M., Chien, M.V., and Mun, S.K., "Artificial Convolution Neural Network Techniques and Applications to Lung Nodule Detection," *IEEE Trans. on Med. Imaging*, Vol. 14, No. 4, pp. 711-718, 1995.
- Lin, J.S., Lo, S-C.B., Butson, P.D., Li, H., Freedman, M., and Mun, S.K., "Performance Characteristics of High Resolution Charged-Coupled Device Film Digitizers," *Journal of Digital Imaging*, 1995.
- Lin, J.S., Hasegawa, A., Freedman, M., Mun, S.K., "Differentiation between nodules and end-on vessels using a convolutional neural network architecture," *J Digital Imaging*, Vol. 8, pp. 132-141
- Lin, J.S., Lo, S-C.B., Freedman, M., and Mun, S.K., "Differentiation between Nodules and End-On Vessels Using A Convolution Neural Network Architecture," *Journal of Digital Imaging*, 1995
- Lin, J.S., Lo, S-C.B., Butson, P.D., Li, H., Freedman, M., and Mun, S.K., "Performance Characteristics of High Resolution Charged-Coupled Device Film Digitizers," *Journal of Digital Imaging*, 1995.
- Lo, S-C.B., Chan, H.P., Lin, J.S., Li, H., Freedman, M., and Mun, S.K., "Artificial Convolution Neural Network for Medical Image Pattern Recognition," *Neural Networks*, Vol. 8, No. 7, pp. 1201-1214, 1995.
- Freedman, M., Steller, D., and Mun, S.K., "Digital Radiography of the Musculoskeletal System: The Optimal Image," *J Digital Imaging*, Vol. 8, pp. 37-42, 1995.
- Freedman, M., Steller, D., Jafroudi, H., Mun, S.K., "Quality Control of Storage Phosphor Digital Radiography Systems," *J Digital Imaging*, Vol. 8, pp.67-74, 1995.
- Mun, S.K., Elsayed A., Tohme W.G., and Wu Y.C., "Teleradiology/Telepathology: Requirements and Implementation," *J. of Medical Systems*, Vol.19, No. 2, pp.153-164, April 1995.
- Lo, S-C.B., Chan, H.P., Lin, J.S., Li, H., Freedman, M., and Mun, S.K., "Artificial Convolutional Neural Network for Medical Image Pattern Recognition," *Neural Networks*, 1995.

- Krasner, B., Garra B.S., and Mun, S.K., "Ultrasound Tissue Characterization Workstation: Applications and Design," Radiographics, 1994.
- Krasner, B., Lo, S-C.B., and Mun, S.K., "Vector Quantization Distortion of Medical Ultrasound Feature," J. of Digital Imaging, 1993.
- Mun, S.K., Freedman, M., and Rajiv, K., "The Revolutionary Use of Imaging Modalities Requires Companion Advances in Management of Films and Data," (IMAC) System for Radiology, IEEE Engineering in Medicine and Biology, pp.70-80, 1993.
- Lo S-C B, Freedman M, Krasner B H, Mun SK, Horii S C., "An Automatic Lung Nodule Detection System for Pulmonary Radiology: A Clinical Assistant and an Example of Adding Values To," Journal of Digital Imaging, Vol. 6, pp. 48-54, 1993.
- Mun, S.K. and Goeringer, F., "Image Management and Communications System for Radiology Service," Medical Progress through Technology, Vol. 18, pp. 165-179, 1992.
- Lo, S-C.B., Lou, S.L., and Mun, S.K., "Projection Domain Compression of Missing Angles for Fan-Beam CT Reconstruction," Computerized Medical Imaging and Graphics, Vol. 16, pp. 259-269, 1992.
- Horii, S.C., Levine, B.A., Goger, G., Mun, S.K., Fielding, R., Lo, S-C.B., Krasner, B., and Benson, H., "A Comparison of Case Retrieval Times: Film versus PACS," J. Digital Imaging, Vol. 5, pp. 138-143, 1992.
- Mun, S.K., Horii, S.C., and Benson, H., "Picture Archiving and Communication in Radiology: An American Perspective," J. of Digital Imaging, Vol. 4, 1991.
- Lo, S-C.B., Shen, E., Mun, S.K., and Chen, J., "A Method for Splitting Digital Values in Radiological Image Compression," Medical Physics, Vol. 18, pp. 939-946, 1991.
- Horii, S.C., Mun, S.K., Levine, B., Lo, S-C.B., Garra, B.S., Zeman, R.K., Freedman, et. al., "PACS Clinical Experience at Georgetown University," Computerized Medical Imaging and Graphics, Vol. 15, No. 3, pp. 1-8, 1991.
- Lo, S-C.B., Krasner, B., and Mun, S.K., "Noise Impact on Error - Free Image Compression," IEEE Transactions on Medical Imaging, Vol. 9, No.2, pp. 202-206, 1990.
- Lo, S-C.B, Gaskille, J.W., Mun, S.K., and Krasner, B., "Contrast Information of Digital Imaging in Laser Film Digitizer and Display Monitor," J. Digital Imaging, Vol.3, No.2, pp. 119-123, 1990.
- Mun, S.K., Benson, H., and Horii, S.C., "Planning Makes Perfect in IMACS Implementation," Diagnostic Imaging, pp. 9, September 1990.
- Levine, B.A. and Mun, S.K., "Image Management & Communication Systems: A New Challenge in Radiology," Medical Progress Through Technology, Vol.152, pp. 199-216, Kluwer Academic, 1989.
- Lo, S-C.B. and Mun, S.K., "Strip and Line Path Integrals with Square Pixel Matrix - A Unified Theory for Computational CT Projections," IEEE Trans. Medical Imaging, Vol. 7, No. 4, pp. 355-363, Dec. 1988.
- Hilal, S.K., Maudsley, A.A., Mun, S.K., et al., "In Vivo NMR Imaging of Sodium - 23 in the Human Head," Assist. Tomo., Vol. 9, pp.1-7, 1985.
- Mun, S.K., "Operating Magnetic Field for NMR Imaging," Radiographics, Vol. 4, pp. 44-48, 1984.
- Mun, S.K., Mallick, M., Mishra, M., Chang, J.C., and Das, T.P., "Theory of Proton Hyperfine Interaction in Fe (III) and Mn (II) Hemoglobin Derivatives," J. Am. Chem. Soc., Vol.103, pp. 5024-5031, 1981.
- Mun, S.K., Chang, J.C., and Das, T.P., "Theory of Hyperfine Fields at Fe-57 and N-14 sites in Metmyoglobin and Related Compounds," J. Am. Chem. Soc., Vol. 101, pp. 5562-5568, 1979.
- Mun, S.K., Chang, J.C., and Das, T.P., "Origin of Observed Changes in N-14 Hyperfine Interaction accompanying R to T Transition in Nitrosylhemoglobin," Proc. Natl. Acad. Sci., USA, Vol. 76, pp. 4842-4846, 1979.
- Mallick, M.K., Mun, S.K., Mishra, M., Chang, J.C., and Das, T.P., "Theory of Hyperfine Interactions and Associated Properties in Hemin and Hemoglobin Derivatives," Hyperfine Interactions, Vol. 4, pp. 914-920, 1978.
- Mun, S.K., Chang, J.C., and Das, T.P., "Critical Appraisal of Electronic Structure of Metmyoglobin: N-14 and Fe-57 Hyperfine Interactions." Biochem. Biophys. Acta., Vol. 490, pp. 249-253 (1977).

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- Ciobanu, G., Mun, S.K., Lee, T.S., and Das, T.P., "Demonstration of Charge Transfer in 'One Dimensional' Organic Metal," Chem. Phys. Lett., Vol. 38, pp. 500-504, 1976.

### **Funded Research Support – Current and Completed**

- Ruggedized Medic SmartPhone (2012- 2015) \$2.2 Million  
Development of Rugged Smartphone for Medics in the Battlefield  
US Army Medical Research and Material Command  
Role: Co-PI with Kenneth Wong
- Veterans Affairs through OSEHRA: Approx \$300,00 per year  
Management Leadership for Open Source Electronic Health Record Agent  
Role: P.I. Serving CEO of OSEHRA
- Imperium (2010): \$190,000  
Clinical Trial of a Transmission Ultrasound Imaging System  
Imaging of Stress Fractures  
Role: Co-P.I. with Kenneth Wong
- TATRC, US Army (2011): \$1.49 Million-  
Neuro-Performance Study of sleep (lack of) on behavior  
Role: P.I.
- TATRC, US Army (2008- ) \$280,000  
HighView Informatics  
Information sharing and informatics for primary care setting  
Role: P.I.
- TATRC, US Army (2010 - ): \$220,000  
Neuroimaging for Human Performance and Sleep Research  
Role: P.I.
- Department of Defense (2005): \$239,585  
Uncovering the Natural Signature of Deception  
Functional MRI to study brain functions  
Role: P.I.
- Department of Defense: (2003): \$7.1 Million  
Periscopic Surgery  
To develop a series of image-guided robotic systems for surgical and rehabilitative medicine  
Role: Co-P.I.
- National Library of Medicine: (2003-2007): \$6.5 Million  
Project Sentinel  
To develop IT for information sharing for normal disease surveillance and emergency operations  
Role: PI
- Quantum Medical (2006): \$172,957  
PET Imaging  
To develop flexible PET imaging system  
Project Cancelled Due to Company Failure  
Role: Co-P.I.

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- Department of Defense: (2003):\$4.0 million  
Medical Vanguard Diabetes Management Project  
Internet-based diabetes management system for the US Navy and American Indians  
Role: PI
- Department of Defense (2003): \$7.1 Million  
Project Argus Research  
Disease Surveillance based on open source multimedia material  
Role: Co-P.I.
- Henry M. Jackson Foundation: (2004): \$3.5 Million  
Gynecology Disease Research  
Multi-departmental program on the prevention and treatment of gynecological diseases.  
Role: Insitutional P.I.
- Imperium Inc. (2008): \$250,000  
Phase II SBIR  
Development of Transmission Ultrasound Imaging System for the Army  
Role: P.I.
- American Guidance and Navigation Corp.: \$100,000  
Phase I: STTR  
Injury Assessment with Ultrasound Imaging
- Department of Defense( 2007): 258,000  
High View Construct of Defense Health Information System  
Developing policy options for the DoD Electronic Medical Record  
Role: P.I.
- National Library of Medicine (2004): \$200,000  
Refugee Health Information Network  
Electronic document management for refugee health  
Role: PI
- Department of Defense (1996): \$12 Million  
Project Vanguard  
Advance Medical Technology and Network Systems Research for PACS and Teleradiology  
Role: PI
- Dept of Health and Human Services, (2002): \$395,408  
Project SRIN: secure teleradiology  
Teleradiology Project with Avera Health System  
Role: Co-P.I.
- National Library of Medicine (2003): \$2.8 Million  
"Project Phoenix: Scrutinizing a Telemedicine Testbed",  
Telemedicine Project for Kidney Dialysis Service  
Role: P.I.
- Medicare (2000): \$6.0 Million  
Medicare Demonstration Project for Coordinated Care of Congestive Heart Failure Patients  
Demonstrating Coordinated Care with the use of telehealth in home monitoring of CHF patients  
Role: P.I.