

## CURRICULUM VITAE

**Sergey Y. Tolmachev, Ph.D.**

U.S. Transuranium and Uranium Registries  
College of Pharmacy, Washington State University  
1845 Terminal Drive, Suite 201, Richland, WA 99354  
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### EDUCATION

04/1998 – 03/2001, Ph.D. in Chemistry and Physics of Condensed Matter (Environmental Radiochemistry)  
Kyushu University, Division of Science (Fukuoka, Japan): *"The behavior of  $^{210}\text{Po}$  in coastal seawater and maritime aerosols at Kyushu Island, Japan"*

09/1987 – 03/1993, M.S. in Nuclear-Chemical Engineering (Radiochemistry)  
Mendeleev University of Chemical Technology of Russia, Department of Radiation Chemistry and Radiochemistry (Moscow, Russia): *"Application of radiochemically and isotopically ultra-pure  $^{237}\text{Pu}$  and  $^{236}\text{Pu}$  for  $^{238}\text{Pu}$  and  $^{239+240}\text{Pu}$  determination in soils under global monitoring"*

### PROFESSIONAL EXPERIENCE

10/2010 – present, Associate Research Professor and Director  
U.S. Transuranium and Uranium Registries, College of Pharmacy, Washington State University  
(Richland, USA)

05/2016 – 03/2018, Technical Advisor  
Kyushu Environmental Evaluation Association (Fukuoka, Japan)

04/2015 – 03/2017, Visiting Professor  
Central Institute of Radioisotope Sciences and Safety, Kyushu University (Fukuoka, Japan)

06/2011 – 05/2017, Adjunct Professor  
Department of Chemistry, Laval University (Quebec, Canada)

02/2007 – 09/2010, Associate Research Professor/Radiochemistry Laboratory Manager  
U.S. Transuranium and Uranium Registries, College of Pharmacy, Washington State University  
(Richland, USA)

04/2006 – 12/2006, Researcher  
National Institute of Radiological Sciences, Research Center for Radiation Safety (Chiba, Japan)

10/2004 – 03/2006, Postdoctoral Researcher  
National Institute of Radiological Sciences, Office of Biospheric Assessment for Waste Disposal (Chiba, Japan)

04/2004 – 09/2004, Technical Research Staff  
Radiation Application Development Association (Tokai-mura, Japan)

04/2001 – 03/2004, Postdoctoral Researcher  
Japan Atomic Energy Research Institute, Department of Health Physics (Tokai-mura, Japan)

## PROFESSIONAL AFFILIATIONS

- Radiation Research Society, 2014 – present
- European Radiation Dosimetry Group (EURADOS) WG-7 on Internal Dosimetry, 2011 – present
- Columbia Chapter Health Physics Society, 2010 – present
- Health Physics Society, 2007 – present
- Japan Health Physics Society, 2001 – 2006
- Society of Nuclear and Radiochemical Sciences (Japan), 1999 – 2005

## TEACHING PORTFOLIO

### Graduate Committee

- Major Advisor Ph.D. Dissertation, Sara Dumit, College of Pharmacy, Washington State University, 2015 – 2018
- Member M.S. Thesis, Christopher Nielsen, College of Arts and Sciences, Washington State University, 2011 – 2012

## PROFESSIONAL SERVICE

### Board of Trustees

- Herbert M. Parker Foundation, Washington State University, 2016 – present

### Advisory Board

- Graduate Certificate Program in Radiation Protection, Washington State University, 2011 – present

### Technical Board

- Kyushu Environmental Evaluation Association (Fukuoka, Japan) 2016 – 2018

### Editorial Board

- Japanese Journal of Health Physics, 2009 – 2017

## HONORS AND AWARDS

- International Workshop on Internal Dosimetry of Radionuclides, Young Scientist Award, 2002
- Ministry of Education Culture and Sport of Japan (*MONBUSHO*), Doctoral Fellowship, 1998 – 2001
- Ministry of Education Culture and Sport of Japan (*MONBUSHO*), Research Student Fellowship, 1997 – 1998

## PEER-REVIEWED PUBLICATIONS

33. Avtandilashvili M, Dumit S, **Tolmachev SY**. USTUR whole-body Case 0212: 17-year follow-up of plutonium contaminated wound. *Radiation Protection Dosimetry*: Published ahead-of-print; **2017**. DOI: [10.1093/rpd/ncx092](https://doi.org/10.1093/rpd/ncx092)
32. Suslova KG, Sokolova AB, **Tolmachev SY**, Miller SC. The Mayak Worker Dosimetry System (MWDS-2013): Estimation of plutonium skeletal burden from limited autopsy bone samples from Mayak PA workers. *Radiation Protection Dosimetry*: Published ahead-of-print; **2016**. DOI: [10.1093/rpd/ncw239](https://doi.org/10.1093/rpd/ncw239)
31. **Tolmachev SY**, Nielsen CE, Avtandilashvili M, Puncher M, Martinez F, Thomas EM, Miller FL, Morgan WF, Birchall A. The Mayak Worker Dosimetry System (MWDS-2013): Soluble plutonium retention in the lungs of an occupationally exposed USTUR case. *Radiation Protection Dosimetry*: Published ahead-of-print; **2016**. DOI: [10.1093/rpd/ncw136](https://doi.org/10.1093/rpd/ncw136)
30. Puncher M, Birchall A, **Tolmachev SY**. The Mayak Worker Dosimetry System (MWDS-2013): A re-analysis of USTUR case 0269 to determine whether plutonium binds to the lungs. *Radiation Protection Dosimetry*: Published ahead-of-print; **2016**. DOI: [10.1093/rpd/ncw083](https://doi.org/10.1093/rpd/ncw083)
29. Brooks AL, Church BW, Smith JN, **Tolmachev SY**. <sup>137</sup>Cs environmental half-life without remediation: Impact on radiation dose. *Japanese Journal of Health Physics* 51(1): 51-59; **2016**.
28. Nogueira P, Rühm W, Lopez MA, Vrba T, Buchholz W, Fojtík P, Etherington G, Broggio D, Huikari J, Marzocchi O, Lynch T, Lebacqz AL, Li C, Oško J, Malátova I, Franck D, Breustedt B, Leone D, Scott J, Shutt A, Hauck B, Capello K, Pérez-López B, Navarro-Amaro JF, Pliszczynski T, Fantínová K, **Tolmachev SY**. EURADOS <sup>241</sup>Am skull measurement intercomparison. *Radiation Measurements* 82: 64-73; **2015**.
27. Kathren RL, **Tolmachev SY**. Natural uranium tissue content of three Caucasian males. *Health Physics* 109(3): 187-197; **2015**.
26. Vergucht E, De Samber B, Izmer A, Vekemans B, Appel K, **Tolmachev S**, Vincze L, Vanhaecke F. Study of the distribution of actinides in human tissues using synchrotron radiation micro X-ray fluorescence spectrometry. *Analytical and Bioanalytical Chemistry* 407(6): 1559-1566; **2015**.
25. Avtandilashvili M, Puncher M, McComish SL, **Tolmachev SY**. US Transuranium and Uranium Registries case study on accidental exposure to uranium hexafluoride. *Journal of Radiological Protection* 35(1): 129-151; **2015**.
24. Nielsen CE, Wang X, Robinson R, Brooks A, Lovaglio J, Patton K, McComish SL, **Tolmachev SY**, Morgan WF. Carcinogenic and inflammatory effects of plutonium-nitrate retention in an exposed nuclear worker and beagle dogs. *International Journal of Radiation Biology* 90(1): 60 - 70; **2014**.
23. Gibb H, Fulcher K, Nagarajan S, McCord S, Fallahian NA, Hoffman HJ, Haver C, **Tolmachev S**. Analyses of radiation and mesothelioma in the US Transuranium and Uranium Registries. *American Journal of Public Health* 103(4): 710-716; **2013**.
22. Lariviere D, **Tolmachev SY**, Kochermin V, Johnson S. Uranium bone content as an indicator of chronic environmental exposure from drinking water. *Journal of Environmental Radioactivity* 121: 98-103; **2013**.
21. Nielsen CE, Wilson DA, Brooks AL, McCord SL, Dagle GE, James AC, **Tolmachev SY**, Thrall BD, Morgan WF. Microdistribution and long-term retention of <sup>239</sup>Pu(NO<sub>3</sub>)<sub>4</sub> in the respiratory tracts of an

- acutely exposed plutonium worker and experimental beagle dogs. *Cancer Research* 72(21): 5529-5536; **2012**.
20. Lariviere D, Tremblay M, Durand-Jezequel M, **Tolmachev S**. Detection of beryllium in digested autopsy tissues by inductively coupled plasma mass spectrometry using a high matrix interface configuration. *Analytical and Bioanalytical Chemistry* 403(2): 409-418; **2012**.
  19. **Tolmachev SY**, Ketterer ME, Hare D, Doble P, James AC. The US Transuranium and Uranium Registries: Forty years' experience and new directions in the analysis of actinides in human tissues. *Proceedings in Radiochemistry - A Supplement to Radiochimica Acta* 1: 173-181; **2011**.
  18. López MA, Broggio D, Capello K, Cardenas-Mendez E, El-Faramawy N, Franck D, James AC, Kramer GH, Lacerenza G, Lynch TP, Navarro JF, Navarro T, Perez B, Rühm W, **Tolmachev SY**, Weitzenegger E. EURADOS intercomparison on measurements and Monte Carlo modelling for the assessment of americium in a USTUR leg phantom. *Radiation Protection Dosimetry* 144(1-4): 295-299; **2011**.
  17. Li C, Elliot N, **Tolmachev S**, McCord S, Shultz T, Shi Y, Kramer GH. Measurement of uranium isotopes in human tissue samples by TIMS. *Journal of Analytical Atomic Spectrometry* 26(12): 2524-2527; **2011**.
  16. Kramer GH, Hauck B, Capello K, Rühm W, El-Faramawy N, Broggio D, Franck D, López MA, Navarro T, Navarro JF, Perez B, **Tolmachev S**. Comparison of two leg phantoms containing <sup>241</sup>Am in bone. *Health Physics* 101(3): 248-258; **2011**.
  15. Li C, Benkhedda K, **Tolmachev S**, Carty L, Ko R, Moir D, Cornett J, Kramer G. Measurement of <sup>236</sup>U in human tissue samples using solid phase extraction coupled to ICP-MS. *Journal of Analytical Atomic Spectrometry* 25(5): 730-734; **2010**.
  14. Hare D, **Tolmachev S**, James A, Bishop D, Austin C, Fryer F, Doble P. Elemental bio-imaging of thorium, uranium, and plutonium in tissues from occupationally exposed former nuclear workers. *Analytical Chemistry* 82(8): 3176-3182; **2010**. ([Featured Article](#), Webb S. MS maps actinides in exposed workers. *Analytical Chemistry* 82(9): 3409-3410; 2010).
  13. Lynch TP, **Tolmachev SY**, James AC. Estimating <sup>241</sup>Am activity in the body: comparison of direct measurements and radiochemical analyses. *Radiation Protection Dosimetry* 134(2): 94-101; **2009**.
  12. **Tolmachev S**, Kuwabara J, Noguchi H. Concentration and daily excretion of uranium in urine of Japanese. *Health Physics* 91(2): 144-153; **2006**.
  11. **Tolmachev S**, Tagami K, Uchida S. Determination of <sup>226</sup>Ra in surface waters using high-resolution inductively coupled plasma mass spectrometry after selective extraction. *Proceedings of the 2<sup>nd</sup> International Conference on Environmental Radioactivity (Nice, France, 2–6 October 2005)*. Strand, P.; Borretzen, P.; Jolle, T. (Eds): 592-596; **2005**.
  10. **Tolmachev SY**, Maeda Y, Momoshima N. Polonium-210 concentration in coastal seawater: Effect of suspended particulate matter and colloids on isotope behavior. *Proceedings of the International Symposium on Radioecology and Environmental Dosimetry (22 – 24 October 2003, Rokkasho, Aomori, Japan)*. Inaba, J.; Tsukada, H.; Takeda, A. (Eds) Institute for Environmental Sciences, Rokkasho, Aomori, Japan. ISBN 4-9980604-6-5; 366 - 371; **2004**.
  9. **Tolmachev SY**, Kuwabara J, Noguchi H. Flow injection extraction chromatography with ICP-MS for thorium and uranium determination in human body fluids. *Journal of Radioanalytical and Nuclear Chemistry* 261(1): 125-131; **2004**.

8. Kuwabara J, **Tolmachyov S**, Noguchi H. The development of flow injection technique for rapid uranium determination in urine samples. *Journal of Nuclear Science and Technology* 39(Suppl 3): 556-559; **2002**.
7. **Tolmachyov SY**, Momoshima N, Maeda Y. Role of suspended particulate matter and colloids in <sup>210</sup>Po behavior in coastal seawaters. *Proceedings of the 1<sup>st</sup> International Conference on Environmental Radioactivity (Monaco, 1–5 September 2002)*. Borretzen, P.; Jolle, T.; Strand, P. (Eds): 481-484; **2002**.
6. **Tolmachyov S**, Mitarai S, Momoshima N, Yamamoto M, Maeda Y, Nakashima T. Application of PXAMS technique for Cl-36 analysis in soil collected at Semipalatinsk Nuclear Test Site. *Journal of Radioanalytical and Nuclear Chemistry* 251 (2): 217-220; **2002**.
5. **Tolmachyov S**, Ura S, Momoshima N, Yamamoto M, Maeda Y. Determination of Cl-36 by liquid scintillation counting from soil collected at the Semipalatinsk Nuclear Test Site. *Journal of Radioanalytical and Nuclear Chemistry* 249(3): 541-545; **2001**.
4. Gamo T, Momoshima N, **Tolmachyov S**. Recent upward shift of the deep convection system in the Japan Sea, as inferred from the geochemical tracers tritium, oxygen, and nutrients. *Geophysical Research Letters* 28(21): 4143-4146; **2001**.
3. Momoshima N, **Tolmachyov S**, Song L-X, Maeda Y, Osaki S. A new source of atmospheric polonium. In: *Distribution and speciation of radionuclides in the environment*. Inaba, J.; Hisamatsu, S.; Ohtsuka, Y. (Eds) Institute for Environmental Sciences, Rokkasho, Aomori, Japan. ISBN 4-9980604-3-0; 147-151; **2000**.
2. **Tolmachev SY**, Dmitriev SN, Maslov OD, Molokanova LG, Gustova MV, Sabel'nikov AV. Determination of natural and technogenic actinides in natural waters by photofission-based method. *Radiokhimiya (in Russian)* 41 (5): 469-473; **1999**.  

A method was developed for determination of ultramicroconcentrations of actinides using the photofission reaction ( $\gamma, f$ ) and registration of fission products with solid-state track detectors. Radiochemical separation and analysis methods for Th, U, Np, and Pu in natural waters are proposed. The bremsstrahlung source was a Microtron MT-25 space-saving electron accelerator.
1. Maslov OD, Dmitriev SN, Molokanova LG, **Tolmachyov SY**. Low-level measurements of thorium and neptunium in environmental samples using the ( $\gamma, f$ ) reaction. *Journal of Radioanalytical and Nuclear Chemistry* 226 (1): 181-183; **1997**.

#### EDITORIALS

3. Zhou JY, **Tolmachev SY**. Five-decade follow-up of plutonium and uranium workers. *Health Physics News* 44(4): 2-3; **2016**.
2. Gibb H, Fulcher K, Nagarajan S, McCord S, Fallahian NA, Hoffman HJ, Haver C, **Tolmachev S**. Respond to "Incorrect analysis of radiation and mesothelioma". *American Journal of Public Health* 104(2): e1-e2; **2014**.
1. Kramer GH, López MA, Broggio D, **Tolmachev S**, Rühm W. Reply to Spitz et al "Natural vs. artificial anthropometric phantoms for measuring bone-seeking radionuclides". *Health Physics* 102(3) 354-355; **2012**.

PEER-REVIEWED CONFERENCE ABSTRACTS (SINCE AT WSU)

19. **Tolmachev SY**. U.S. Transuranium and Uranium Registries: 50 years of research relevant to new biomarker. *Health Physics* 113 (Suppl 1): S82-S83; **2017**.
18. Dumit S, Avtandilashvili M, **Tolmachev SY**. Enhancement of plutonium excretion following late Ca-EDTA/DTPA treatment. *Health Physics* 113 (Suppl 1): S95-S96; **2017**.
17. Tabatadze G, Avtandilashvili M, **Tolmachev SY**. Plutonium in tissues of occupationally exposed individuals. *Health Physics* 113 (Suppl 1): S94-S95; **2017**.
16. Goans R, Iddins C, Toohey R, McComish S, **Tolmachev S**, Dainiak N. The pseudo Pelger-Hüet cell - from bats to humans and everything in between. *Health Physics* 113 (Suppl 1): S81-S82; **2017**.
15. **Tolmachev SY**, Kathren RL. Estimation of actinide skeletal content from a single bone analysis. *Health Physics* 111 (Suppl 1): 40, **2016**.
14. Avtandilashvili M, **Tolmachev SY**. Updating ICRP 70 skeleton weight vs. body height equation. *Health Physics* 111 (Suppl 1): 40; **2016**.
13. Dumit S, Avtandilashvili M, Breustedt B, **Tolmachev SY**. USTUR Case 0785: Modeling Pu decorporation following complex exposure. *Health Physics* 111 (Suppl 1): 41; **2016**.
12. Tabatadze G, Miller B, **Tolmachev SY**. Digital autoradiography of <sup>241</sup>Am spatial distribution within trabecular bone regions. *Health Physics* 111 (Suppl 1): 41; **2016**.
11. Zhou JY, McComish SL, **Tolmachev, SY**. Reanalysis of radiation and mesothelioma in the U.S. Transuranium and Uranium Registries. *Health Physics* 111 (Suppl 1): 42; **2016**.
10. Toohey RE, Goans, RE, Iddins CJ, Dainiak N, McComish S L, **Tolmachev, SY**. Red marrow dosimetry for former radium workers. *Health Physics* 111 (Suppl 1): 56; **2016**.
9. Goans RE, Toohey RE, Iddins CJ, Dainiak N, McComish SL, **Tolmachev SY**. The pseudo Pelger-Huet cell as a retrospective dosimeter: Analysis of a radium dial painter cohort. *Health Physics* 111 (Suppl 1): 57; **2016**.
8. Breustedt B, Avtandilashvili M, McComish SL, **Tolmachev SY**. USTUR Case 0846: Modeling americium biokinetics after intensive decorporation therapy. *Health Physics* 111 (Suppl 1): 58; **2016**.
7. Birchall A, Puncher M, **Tolmachev, S**. The importance of plutonium binding in human lungs. *Health Physics* 111 (Suppl 1): 58; **2016**.
6. Avtandilashvili M, Puncher M, McComish S, **Tolmachev S**. Modeling uranium hexafluoride inhalation. *Health Physics* 109 (Suppl 1): 58; **2015**.
5. Miller B, Tabatadze G, Frost S, Orozco J, Press O, Sandmaier B, Miederer M, **Tolmachev S**. Quantitative single-particle digital autoradiography with the ionizing-radiation quantum imaging detector. *Health Physics* 109 (Suppl 1): 108; **2015**.
4. Tabatadze G, Miller B, **Tolmachev S**. Radionuclide distribution measurement within anatomical bone structures using digital autoradiography. *Health Physics* 109 (Suppl 1): 59; **2015**.
3. Kathren RL, **Tolmachev SY**. Uranium distribution and concentrations in the tissues of whole-body donations to the USTUR. *Health Physics* 107 (Suppl 1): 107; **2014**.

2. Avtandilashvili M, McComish SL, **Tolmachev SY**. USTUR whole-body Case 0212: testing NCRP wound model. *Health Physics* 107 (Suppl 1): 108 – 109; **2014**.
1. Breustedt B, McCord SL, **Tolmachev SY**. Modeling of chelation therapy for <sup>241</sup>Am – USTUR Case 0846. *Health Physics* 103 (Suppl 1): 80; **2012**.

### CONFERENCE PRESENTATIONS (SINCE AT WSU)

#### INVITED PRESENTATIONS

7. U.S. Transuranium and Uranium Registries: 50 years of research relevant to new biomarker. 62<sup>nd</sup> Annual Health Physics Society Meeting, Raleigh, NC, July 9 – July 13, **2017**.
6. Uranium content, distribution, and biokinetics in human body. International Workshop on Uranium, Thorium, and Plutonium Sciences, Fukuoka, Japan, December 10, **2015**.
5. The National Human Radiobiology Tissue Repository. 1<sup>st</sup> International Workshop on Sample/Tissue Archiving of Radiobiology (STAR2015), Kyoto, Japan, May 24-25, **2015**.
4. Update on the U.S. Transuranium and Uranium Registries (USTUR) and research. 2015 DOE Annual Occupational Medicine Workshop and Webinar, Washington, DC, March 16-17, **2015**.
3. The U.S. Transuranium and Uranium Registries: Beyond archiving. DoReMi/STORE Workshop on Sharing Data and Biomaterials from Radiation Science, Rome, Italy, January 25-26, **2012**.
2. The National Human Radiobiological Tissue Repository: A unique resource for scientists. 60<sup>th</sup> Radiation Research Society Meeting, Las Vegas, NV, September 21-24, **2014**.
1. Radiochemistry Program at the U.S. Transuranium and Uranium Registries. Joint Symposium between Kyushu Environmental Evaluation Association and Kyushu University Radioisotope Center, Fukuoka, Japan, April 6, **2010**.

#### PODIUM PRESENTATIONS

33. Analysis of 'high-fired' plutonium oxide in tissues of occupationally exposed workers. 6<sup>th</sup> Asian-Pacific Symposium on Radiochemistry. Jeju Island, Korea, September 17 – 22, **2017**. †
32. Digital autoradiography of bone-seeking radionuclides in human. 6<sup>th</sup> Asian-Pacific Symposium on Radiochemistry. Jeju Island, Korea, September 17 – 22, **2017**.
31. The pseudo Pelger-Huet cell - from bats to humans and everything in between. 62<sup>nd</sup> Annual Health Physics Society Meeting, Raleigh, NC, July 9 – July 13, **2017**.
30. Plutonium in tissues of occupationally exposed individuals. 62<sup>nd</sup> Annual Health Physics Society Meeting, Raleigh, NC, July 9 – July 13, **2017**.
29. Enhancement of plutonium excretion following late Ca-EDTA/DTPA treatment. 62<sup>nd</sup> Annual Health Physics Society Meeting, Raleigh, NC, July 9 – July 13, **2017**.
28. Estimation of actinide skeletal content from a single bone analysis. 61<sup>st</sup> Annual Meeting of the Health Physics Society, Spokane, WA, July 17-21, **2016**. †
27. Updating ICRP 70 skeleton weight vs body height equation. 61<sup>st</sup> Annual Meeting of the Health Physics Society, Spokane, WA, July 17-21, **2016**.

26. USTUR Case 0785: Modeling Pu decorporation following complex exposure. 61<sup>st</sup> Annual Meeting of the Health Physics Society, Spokane, WA, July 17-21, **2016**.
25. Alpha-particle digital autoradiography of trabecular bone regions. 61<sup>st</sup> Annual Meeting of the Health Physics Society, Spokane, WA, July 17-21, **2016**.
24. Reanalysis of radiation and mesothelioma in the USTUR. 61<sup>st</sup> Annual Meeting of the Health Physics Society, Spokane, WA, July 17-21, **2016**.
23. The pseudo Pelger-Huet cell as a retrospective dosimeter: Analysis of a radium dial painter cohort. 61<sup>st</sup> Annual Meeting of the Health Physics Society, Spokane, WA, July 17-21, **2016**.
22. Red marrow doses to radium workers. 61<sup>st</sup> Annual Meeting of the Health Physics Society, Spokane, WA, July 17-21, **2016**.
21. The importance of plutonium binding in human lungs. 61<sup>st</sup> Annual Meeting of the Health Physics Society, Spokane, WA, July 17-21, **2016**.
20. USTUR Case 0846: Modeling americium biokinetics after intensive decorporation therapy. 61<sup>st</sup> Annual Meeting of the Health Physics Society, Spokane, WA, July 17-21, **2016**.
19. Analysis of high-fired plutonium oxide and other actinides in MAPEP soil samples. 61<sup>st</sup> Radiobioassay & Radiochemical Measurements Conference, Iowa City, IA, October 25-30, **2015**.
18. Radionuclide distribution measurement within anatomical bone structures using digital autoradiography. 60<sup>th</sup> Annual Meeting of the Health Physics Society, Indianapolis, IN, July 12-16, **2015**.
17. Modeling uranium hexafluoride inhalation. 60<sup>th</sup> Annual Meeting of the Health Physics Society, Indianapolis, IN, July 12-16, **2015**.
16. Quantitative single-particle digital autoradiography with the ionizing-radiation quantum imaging detector. 60<sup>th</sup> Annual Meeting of the Health Physics Society, Indianapolis, IN, July 12-16, **2015**.
15. USTUR whole-body Case 0212: testing NCRP wound model. 59<sup>th</sup> Annual Meeting of the Health Physics Society, Baltimore, MD, July 13-17, **2014**.
14. USTUR case study on accidental exposure to uranium hexafluoride. 11<sup>th</sup> International Conference on Health Effects of Incorporated Radionuclides, Berkeley, CA, October 13-17, **2013**.
13. Biodosimetry of plutonium workers. Plenary Meeting of the European Radiation Dosimetry (EURADOS) Working Group 7 on Internal Dosimetry, Bologna, Italy, October 1-3, **2013**.
12. Application of microwave-assisted techniques for human tissue samples preparation for actinide analysis. 58<sup>th</sup> Radiobioassay and Radiochemical Measurements Conference in Fort Collins, CO, October 29 - November 2, **2012**.
11. USTUR studies: An update. Plenary Meeting of the European Radiation Dosimetry (EURADOS) Working Group 7 on Internal Dosimetry, Budapest, Hungary, October 1-3, **2012**. †
10. Biokinetic modeling of chelation therapy for <sup>241</sup>Am – USTUR Case 0846. 57<sup>th</sup> Annual Meeting of the Health Physics Society, Sacramento, CA, July 22-26, **2012**. †

9. Distribution of terminal lung and liver dose rates in United States Transuranium and Uranium Registries Registrants. Plenary Meeting of the European Radiation Dosimetry (EURADOS) Working Group 7 on Internal Dosimetry, Ghent, Belgium, September 14-16, **2011**.
8. From single bone analysis to total skeleton content. Plenary Meeting of the European Radiation Dosimetry (EURADOS) Working Group 7 on Internal Dosimetry, Ghent, Belgium, September 14-16, **2011**. †
7. Comparison of two leg phantoms containing Am-241 in bone. 56<sup>th</sup> Annual Health Physics Society Meeting, West Palm Beach, FL, June 26-30, **2011**.
6. Distribution of terminal lung and liver dose rates in United States Transuranium and Uranium Registries Registrants. 56<sup>th</sup> Annual Health Physics Society Meeting, West Palm Beach, FL, June 26-30, **2011**.
5. The U.S. Transuranium and Uranium Registries: Forty years' experience and new directions in the analysis of actinides in human tissues. 4<sup>th</sup> Asia-Pacific Symposium on Radiochemistry, Napa, CA, November 29 – December 5, **2009**. †
4. Analysis of beryllium in autopsy tissues from nuclear weapons site worker. Beryllium Health and Safety Committee Meeting, Las Vegas, NV, November 3-5, **2009**.
3. Beryllium in the tissues of weapons-site workers. 3<sup>rd</sup> International Symposium on Beryllium Particulates and Their Detection, Albuquerque, New Mexico, November 17-19, **2008**.
2. Beyond  $\alpha$ -spectrometry for actinide determination in human tissues? 42<sup>nd</sup> Annual Meeting of the Health Physics Society of Japan, Okinawa, Japan, June 26-27, **2008**. †
1. Comparison of <sup>241</sup>Am organ activity from radiochemistry and direct measurements. 53<sup>rd</sup> Radiobioassay and Radiochemical Measurements Conference, Jackson Hole, WY, October 29 – November 2, **2007**.

† **Presenter**

#### POSTER PRESENTATIONS

14. Modeling Pu decorporation therapy following occupational exposure. Brazilian Graduate Student Conference (BRASCON), Harvard University, Cambridge, MA, March 12-13, **2016**.
13. The National Human Radiobiology Tissue Repository: Human tissue collection at the US Transuranium and Uranium Registries. 15<sup>th</sup> International Congress of Radiation Research (ICRR2015), Kyoto, Japan, May 25-29, **2015**. †
12. Uncertainty analysis on lung doses for US nuclear workers. 11<sup>th</sup> International Conference on Health Effects of Incorporated Radionuclides, Berkeley, CA, October 13-17, **2013**.
11. The U.S. Transuranium and Uranium Registries: A unique human data resource. 58<sup>th</sup> Annual Meeting of the Radiation Research Society, San Juan, Puerto Rico, September 30 - October 3, **2012**.
10. The U.S. Transuranium and Uranium Registries: A unique human data resource. 58<sup>th</sup> Annual Meeting of the Radiation Research Society, San Juan, Puerto Rico, September 30 - October 3, **2012**.

9. An analysis of the microdistribution and long-term retention of  $^{239}\text{Pu}(\text{NO}_3)_4$  in the respiratory tracts of an exposed plutonium worker and experimental beagles. 58<sup>th</sup> Annual Meeting of the Radiation Research Society, San Juan, Puerto Rico, September 30 - October 3, **2012**.
8. The United States Transuranium and Uranium Registries (USTUR). WSU College of Pharmacy Research and Scholarship Day, Spokane, WA, August 10, **2012**.
7. Maximum likelihood analysis of refractory  $\text{PuO}_2$  inhalation cases. WSU College of Pharmacy Research and Scholarship Day, Spokane, WA, August 10, **2012**.
6. A new leg voxel model in two different positions for simulation of the non-uniform distribution of  $^{241}\text{Am}$  in leg bones. 57<sup>th</sup> Annual Meeting of the Health Physics Society, Sacramento, CA, July 22-26, **2012**.
5. Elemental imaging of actinides in human tissues using LA-ICP-MS and SR micro-XRF. 2012 European Conference on X-Ray Spectrometry (EXRS 2012), Vienna, Austria, June 18-22, **2012**.
4. Uranium in drinking water: Impact on uranium bone content. 2<sup>nd</sup> International Conference on Radioecology and Environmental Radioactivity, Hamilton, Canada, June 19-24, **2011**.
3. Elemental bio-imaging of actinides and beryllium in lymph nodes of former nuclear workers. 54<sup>th</sup> Annual Meeting of the Health Physics Society, Minneapolis, MN, July 12-16, **2009**. †
2. Determination of U, Pu, and Am in biological samples by SF-ICPMS for biokinetic studies of actinides. 2008 Winter Conference on Plasma Spectrochemistry, Temecula, CA, January 7-12, **2008**. †
1. Determination of Pu and Am in digested bone and soft tissue samples by SF-ICP-MS: Comparison with  $\alpha$ -spectrometry. 53<sup>rd</sup> Radiobioassay and Radiochemical Measurements Conference, Jackson Hole, WY, October 29 – November 2, **2007**. †

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