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EDUCATION & EXPERIENCE

- Graduate School of Environment and Information Science, Yokohama National University, Japan
 - Ph.D. Candidate (April 2000–March 2004)
- National Institute of Advanced Industrial Science and Technology, Japan
 - Post-doctoral Fellow, Research Center for Chemical Risk Management (April 2004–September 2006)
 - Researcher, Research Center for Chemical Risk Management (October 2006–March 2008)
 - Researcher, Research Institute of Science of Safety and Sustainability (April 2008–December 2010)
- Division of Environmental Chemistry, National Institute of Health Sciences, Japan
 - Researcher (January 2011–March 2012)
 - Senior Researcher (April 2012–March 2013)
 - Section Chief (April 2013–Present)

AWARDS

- AIST President's Award (March 2009)
- The Best Paper Award, Society of Environmental Science, Japan (September 2013)
- The Best Paper Award, Advanced Marine Science and Technology Society (May 2014)
- Encouragement Award, Society of Environmental Science, Japan (September 2016)
- Excellent Research Planning Award, Society of Environmental Science, Japan (September 2018)
- The Best Paper Award, Society of Environmental Science, Japan (September 2019)

ACADEMIC ACTIVITIES

- Member of IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Volume

111 "Some Nanomaterials and Some Fibres" Meeting, International Agency for Research on Cancer (IARC), World Health Organization (WHO)

BOOK CHAPTERS

- **Norihiro Kobayashi**, Wataru Naito, Junko Nakanishi: Risk Assessment Document Series No. 9 Lead. Maruzen, Tokyo, 282pp. ISBN: 462107749X (2006).
- **Norihiro Kobayashi**: Nanomaterials. In Ito's Toxicologic Pathology. edited by Michihito Takahashi and Shoji Fukushima, Maruzen Tokyo, pp.161–163. ISBN: 978-4-621-08642-1 (2013).

RESEARCH PAPERS (in English)

- **Norihiro Kobayashi**, Tomomi Eriguchi, Kisaburo Nakata, Shigeki Masunaga, Fumio Horiguchi, Junko Nakanishi: Application of a 3-D chemical fate prediction model (FATE3D) to predict dioxin concentrations in the Tokyo Bay. *Estuarine, Coastal and Shelf Science*, **70**, 621–632 (2006).
<http://doi.org/10.1016/j.ecss.2006.06.013>
- **Norihiro Kobayashi**, Masato Naya, Shigehisa Endoh, Junko Maru, Kazuhiro Yamamoto, Junko Nakanishi: Comparative pulmonary toxicity study of nano-TiO₂ particles of different sizes and agglomerations in rats: Different short- and long-term post-instillation results. *Toxicology*, **264(1–2)**, 110–118 (2009).
<http://doi.org/10.1016/j.tox.2009.08.002>
- Yasuo Morimoto, Akira Ogami, Motoi Todoroki, Makoto Yamamoto, Masahiro Murakami, Masami Hirohashi, Takako Oyabu, Toshihiko Myojo, Ken-Ichiro Nishi, Chikara Kadoya, Sayumi Yamasaki, Hiroko Nagatomo, Katsuhide Fujita, Shigehisa Endoh, Kunio Uchida, Kazuhiro Yamamoto, **Norihiro Kobayashi**, Junko Nakanishi, Isamu Tanaka: Expression of inflammation-related cytokines following intratracheal instillation of nickel oxide nanoparticles. *Nanotoxicology*, **4(2)**, 161–176 (2010).
<http://doi.org/10.3109/17435390903518479>
- **Norihiro Kobayashi**, Masato Naya, Makoto Ema, Shigehisa Endoh, Junko Maru, Kohei Mizuno, Junko Nakanishi: Biological response and morphological assessment of individually dispersed multi-wall carbon nanotubes in the lung after intratracheal instillation in rats. *Toxicology*, **276(3)**, 143–153 (2010).
<http://doi.org/10.1016/j.tox.2010.07.021>

- Makoto Ema, **Norihiro Kobayashi**, Masato Naya, Sosuke Hanai, Junko Nakanishi: Reproductive and developmental toxicity studies of manufactured nanomaterials. *Reproductive Toxicology*, **30(3)**, 343–352 (2010).
<http://doi.org/10.1016/j.reprotox.2010.06.002>
- Yasuo Morimoto, **Norihiro Kobayashi**, Naohide Shinohara, Toshihiko Myojo, Isamu Tanaka, Junko Nakanishi: Hazard assessments of manufactured nanomaterials. *Journal of Occupational Health*, **52(6)**, 325–334 (2010).
<http://doi.org/10.1539/joh.R10003>
- Moritaka Tamura, Masaharu Inada, Tetsuya Nakazato, Kazuhiro Yamamoto, Shigehisa Endo, Kunio Uchida, Masanori Horie, Hiroko Fukui, Hitoshi Iwahashi, **Norihiro Kobayashi**, Yasuo Morimoto, Hiroaki Tao: A determination method of pristine multiwall carbon nanotubes in rat lungs after intratracheal instillation exposure by combustive oxidation-nondispersive infrared analysis. *Talanta*, **84(3)**, 802–808 (2011).
<http://doi.org/10.1016/j.talanta.2011.02.017>
- Masato Naya, **Norihiro Kobayashi**, Kohei Mizuno, Kyomu Matsumoto, Makoto Ema, Junko Nakanishi: Evaluation of the genotoxic potential of single-wall carbon nanotubes by using a battery of *in vitro* and *in vivo* genotoxicity assays. *Regulatory Toxicology and Pharmacology*, **61(2)**, 192–198 (2011).
<http://doi.org/10.1016/j.yrtph.2011.07.008>
- Takako Oyabu, Toshihiko Myojo, Yasuo Morimoto, Akira Ogami, Masami Hirohashi, Makoto Yamamoto, Motoi Todoroki, Yohei Mizuguchi, Masayoshi Hashiba, Byeong Woo Lee, Manabu Shimada, Wei-Ning Wang, Kunio Uchida, Shigehisa Endoh, **Norihiro Kobayashi**, Kazuhiro Yamamoto, Katsuhide Fujita, Kohei Mizuno, Masaharu Inada, Tetsuya Nakazato, Junko Nakanishi, Isamu Tanaka: Biopersistence of inhaled MWCNT in rat lungs for 4-week well-characterized exposure. *Inhalation Toxicology*, **23(13)**, 784–791 (2011).
<http://doi.org/10.3109/08958378.2011.608096>
- **Norihiro Kobayashi**, Masato Naya, Kohei Mizuno, Kazuhiro Yamamoto, Makoto Ema, Junko Nakanishi: Pulmonary and systemic responses of highly pure and well-dispersed single-wall carbon nanotubes after intratracheal instillation in rats. *Inhalation Toxicology*, **23(13)**, 814–828 (2011).
<http://doi.org/10.3109/08958378.2011.614968>
- Makoto Ema, Akitaka Matsuda, **Norihiro Kobayashi**, Masato Naya, Junko Nakanishi: Evaluation of dermal and eye irritation and skin sensitization due to carbon nanotubes. *Regulatory Toxicology and Pharmacology*, **61(3)**, 276–281 (2011).
<http://doi.org/10.1016/j.yrtph.2011.08.007>

- Masato Naya, **Norihiro Kobayashi**, Makoto Ema, Sawako Kasamoto, Masahito Fukumuro, Shigeaki Takami, Madoka Nakajima, Makoto Hayashi, Junko Nakanishi: *In vivo* genotoxicity study of titanium dioxide nanoparticles using comet assay following intratracheal instillation in rats. *Regulatory Toxicology and Pharmacology*, **62(1)**, 1–6 (2012).
<http://doi.org/10.1016/j.yrtph.2011.12.002>
- Makoto Ema, Jin Tanaka, **Norihiro Kobayashi**, Masato Naya, Shigehisa Endoh, Junko Maru, Masayo Hosoi, Miho Nagai, Madoka Nakajima, Makoto Hayashi, Junko Nakanishi: Genotoxicity evaluation of fullerene C₆₀ nanoparticles in a comet assay using lung cells of intratracheally instilled rats. *Regulatory Toxicology and Pharmacology*, **62(3)**, 419–424 (2012).
<http://doi.org/10.1016/j.yrtph.2012.01.003>
- Makoto Ema, Tadashi Imamura, Hiroshi Suzuki, **Norihiro Kobayashi**, Masato Naya, Junko Nakanishi: Evaluation of genotoxicity of multi-walled carbon nanotubes in a battery of *in vitro* and *in vivo* assays. *Regulatory Toxicology and Pharmacology*, **63(2)**, 188–195 (2012).
<http://doi.org/10.1016/j.yrtph.2012.03.014>
- Yasuo Morimoto, Masami Hirohashi, Akira Ogami, Takako Oyabu, Toshihiko Myojo, Motoi Todoroki, Makoto Yamamoto, Masayoshi Hashiba, Yohei Mizuguchi, Byeong-Woo Lee, Etsushi Kuroda, Manabu Shimada, Wei-Ning Wang, Kazuhiro Yamamoto, Katsuhide Fujita, Shigehisa Endoh, Kunio Uchida, **Norihiro Kobayashi**, Kohei Mizuno, Masaharu Inada, Hiroaki Tao, Tetsuya Nakazato, Junko Nakanishi, Isamu Tanaka: Pulmonary toxicity of well-dispersed multi-wall carbon nanotubes following inhalation and intratracheal instillation, *Nanotoxicology*, **6(6)**, 587–599 (2012).
<http://doi.org/10.3109/17435390.2011.594912>
- Yasuo Morimoto, Masami Hirohashi, Masanori Horie, Akira Ogami, Takako Oyabu, Toshihiko Myojo, Masayoshi Hashiba, Yohei Mizuguchi, Tatsunori Kambara, Byeong Woo Lee, Etsushi Kuroda, Kazuhiro Yamamoto, **Norihiro Kobayashi**, Shigehisa Endoh, Kunio Uchida, Tetsuya Nakazato, Katsuhide Fujita, Junko Nakanishi, Isamu Tanaka: Pulmonary toxicity of well-dispersed single-wall carbon nanotubes following intratracheal instillation. *Journal of Nano Research*, **18–19**, 9–25 (2012).
<http://doi.org/10.4028/www.scientific.net/JNanoR.18-19.9>
- Masato Naya, **Norihiro Kobayashi**, Shigehisa Endoh, Junko Maru, Kazumasa Honda, Makoto Ema, Jin Tanaka, Masahito Fukumuro, Kazushige Hasegawa, Madoka Nakajima, Makoto Hayashi, Junko Nakanishi: *In vivo* genotoxicity study of single-wall carbon nanotubes using comet assay following intratracheal instillation in rats. *Regulatory Toxicology and Pharmacology*, **64(1)**, 124–129 (2012).
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- Yasuo Morimoto, Masami Hirohashi, **Norihiro Kobayashi**, Akira Ogami, Masanori Horie, Takako Oyabu, Toshihiko Myojo, Masayoshi Hashiba, Yohei Mizuguchi, Tatsunori Kambara, Byeong Woo Lee, Etsushi Kuroda, Manabu Shimada, Wei-Ning Wang, Kohei Mizuno, Kazuhiro Yamamoto, Katsuhide Fujita, Junko Nakanishi, Isamu Tanaka: Pulmonary toxicity of well-dispersed single-wall carbon nanotubes after inhalation. *Nanotoxicology*, **6(7)**, 766–775 (2012).
<http://doi.org/10.3109/17435390.2011.620719>
- Masanori Horie, Mayumi Stowe, Tatsunori Kambara, Byeong Woo Lee, Shigehisa Endoh, Junko Maru, Takako Oyabu, Toshihiko Myojo, Akira Ogami, Kunio Uchida, Kazuhiro Yamamoto, **Norihiro Kobayashi**, Etsushi Kuroda, Tetsuya Nakazato, Yasuo Morimoto: Pulmonary inflammation of well-dispersed multi-wall carbon nanotubes following intratracheal instillation: Toxicity by fiber of 1–5 μm in length. *Materials*, **5(12)**, 2833–2849 (2012).
<http://doi.org/10.3390/ma5122833>
- Yasuo Morimoto, Masanori Horie, **Norihiro Kobayashi**, Naohide Shinohara, Manabu Shimada: Inhalation Toxicity Assessment of Carbon-Based Nanoparticles. *Accounts of Chemical Research*, **46(3)**, 770–781 (2013).
<http://doi.org/10.1021/ar200311b>
- Makoto Ema, Akitaka Matsuda, **Norihiro Kobayashi**, Masato Naya, Junko Nakanishi: Dermal and ocular irritation and skin sensitization studies of fullerene C₆₀ nanoparticles. *Cutaneous and Ocular Toxicology*, **32(2)**, 128–134 (2013).
<http://doi.org/10.3109/15569527.2012.727937>
- Kumiko Shimizu, Reiji Kubota, **Norihiro Kobayashi**, Maiko Tahara, Naoki Sugimoto, Tetsuji Nishimura, Yoshiaki Ikarashi: Cytotoxic Effects of Hydroxylated Fullerenes in Three Types of Liver Cells. *Materials*, **6(7)**, 2713–2722 (2013).
<http://doi.org/10.3390/ma6072713>
- Makoto Ema, Tadashi Imamura, Hiroshi Suzuki, **Norihiro Kobayashi**, Masato Naya, Junko Nakanishi: Genotoxicity evaluation for single-walled carbon nanotubes in a battery of *in vitro* and *in vivo* assays. *Journal of Applied Toxicology*, **33(9)**, 933–939 (2013).
<http://doi.org/10.1002/jat.2772>
- Makoto Ema, Shoji Masumori, **Norihiro Kobayashi**, Masato Naya, Shigehisa Endoh, Junko Maru, Masayo Hosoi, Fuyumi Uno, Madoka Nakajima, Makoto Hayashi, Junko Nakanishi: *In vivo* comet assay of multi-walled carbon nanotubes using lung cells of rats intratracheally instilled. *Journal of Applied Toxicology*, **33(10)**, 1053–1060 (2013).
<http://doi.org/10.1002/jat.2810>

- Kumiko Shimizu, Tomoharu Sano, Reiji Kubota, **Norihiro Kobayashi**, Maiko Tahara, Tomoko Obama, Naoki Sugimoto, Tetsuji Nishimura, Yoshiaki Ikarashi: Effects of the amino acid constituents of Microcystin variants on cytotoxicity to primary cultured rat hepatocytes. *Toxins*, **6(1)**, 168–179 (2013).
<http://dx.doi.org/10.3390/toxins6010168>
- Junko Nakanishi, Yasuo Morimoto, Isamu Ogura, **Norihiro Kobayashi**, Masato Naya, Makoto Ema, Shigehisa Endoh, Manabu Shimada, Akira Ogami, Toshihiko Myojo, Takako Oyabu, Masashi Gamo, Atsuo Kishimoto, Takuya Igarashi, Sosuke Hanai: Risk Assessment of the Carbon Nanotube Group. *Risk Analysis*, **35(10)**, 1940–1956 (2015).
<http://doi.org/10.1111/risa.12394>
- Naohide Shinohara, Tetsuya Nakazato, Kumiko Ohkawa, Moritaka Tamura, **Norihiro Kobayashi**, Yasuo Morimoto, Takako Oyabu, Toshihiko Myojo, Manabu Shimada, Kazuhiro Yamamoto, Hiroaki Tao, Makoto Ema, Masato Naya, Junko Nakanishi: Long-term retention of multi-walled carbon nanotubes in rat lungs after intratracheal instillation. *Journal of Applied Toxicology*, **36(4)**, 501–509 (2016).
<http://doi.org/10.1002/jat.3271>
- Eileen D Kuempel, Marie-Claude Jaurand, Peter Möller, Yasuo Morimoto, **Norihiro Kobayashi**, Kent E Pinkerton, Linda Sargent, Roel CH Vermulen, Bice Fubini, Agnes Kane: Evaluating the mechanistic evidence and key data gaps in assessing the potential carcinogenicity of carbon nanotubes and nanofibers in humans. *Critical Reviews in Toxicology*, **47(1)**, 1–58 (2017).
<http://doi.org/10.1080/10408444.2016.1206061>
- **Norihiro Kobayashi**, Hiroto Izumi, Yasuo Morimoto: Review of toxicity studies of carbon nanotubes. *Journal of Occupational Health*, **59(5)**, 394–407 (2017).
<http://doi.org/10.1539/joh.17-0089-RA>
- Yutaka Abe, **Norihiro Kobayashi**, Miku Yamaguchi, Motoh Mutsuga, Asako Ozaki, Eri Kishi, Kyoko Sato: Determination of formaldehyde and acetaldehyde levels in poly (ethylene terephthalate) (PET) bottled mineral water using a simple and rapid analytical method. *Food Chemistry*, **344**, 128708 (2021).
<https://doi.org/10.1016/j.foodchem.2020.128708>
- Motoki Hojo, Ai Maeno, Yoshimitsu Sakamoto, Aya Ohnuki, Yukie Tada, Yukio Yamamoto, Kiyomi Ikushima, Ryota Inaba, Jin Suzuki, Yuhji Taquahashi, Satoshi Yokota, **Norihiro Kobayashi**, Makoto Ohnishi, Yuko Goto, Takamasa Numano, Hiroyuki Tsuda, David B. Alexander, Jun Kanno, Akihiko Hirose, Akiko Inomata, Dai Nakae: Two-year intermittent exposure of a multiwalled carbon nanotube by intratracheal instillation induces lung tumors and pleural mesotheliomas in F344 rats. *Particle and Fibre Toxicology*, **19**, 38 (2022).

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- Katsuyoshi Horibata, Hironao Takasawa, Motoki Hojo, Yuji Taquahashi, Miyuki Shigano, Satoshi Yokota, **Norihiro Kobayashi**, Kei-ichi Sugiyama, Masamitsu Honma, Shuichi Hamada: In vivo genotoxicity assessment of a multiwalled carbon nanotube in a mouse ex vivo culture. *Genes and Environment*, **44(1)**, 24 (2022).
<https://doi.org/10.1186/s41021-022-00253-2>
- **Norihiro Kobayashi**, Sokichi Takagi, Teruaki Kinoshita, Osamu Sakata, Fumi Nakano, Naoto Watanabe, Azumi Nomura, Nobuyuki Kawai, Toshiya Hiraiwa, Manabu Okumura, Koji Furukawa, Tomohiro Kasuya, Noritomo Iwama, Jun Yonekubo, Reika Takahara, Seiya Tanaka, Yuko Tsuchiya, Yoshiaki Ikarashi: Development and validation of an analytical method for simultaneous determination of perfluoroalkyl acids in drinking water by liquid chromatography/tandem mass spectrometry. *Journal of Water and Environment Technology*, **20(6)**, 219–237 (2022).
<https://doi.org/10.2965/jwet.22-058>

REVIEWS (in English)

- Yann Grosse, Dana Loomis, Kathryn Z Guyton, Béatrice Lauby-Secretan, Fatiha El Ghissassi, Véronique Bouvard, Lamia Benbrahim-Tallaa, Neela Guha, Chiara Scoccianti, Heidi Mattock, Kurt Straif, **on behalf of the International Agency for Research on Cancer Monograph Working Group**: Carcinogenicity of fluoro-edenite, silicon carbide fibres and whiskers, and carbon nanotubes. *The Lancet Oncology*, **15(13)**, 1427–1428 (2014).
[http://doi.org/10.1016/S1470-2045\(14\)71109-X](http://doi.org/10.1016/S1470-2045(14)71109-X)

PRESENTATIONS (in English)

- **Norihiro Kobayashi**, Shigeki Masunaga, Yutaka Kameda, Yoshimichi Hanai, Junko Nakanishi: Transportation of PCDD/Fs and dioxin-like PCBs by rivers into Tokyo Bay, Japan. 23th International Symposium on Halogenated Environmental Organic Pollutants and POPs (Dioxin 2003) (2003.8.26 Boston, MA, USA).
- **Norihiro Kobayashi**, Shigeki Masunaga, Junko Nakanishi: Source identification of PCDD/Fs and dioxin-like PCBs in rivers flowing into the Tokyo Bay, Japan. 23th International Symposium on Halogenated Environmental Organic Pollutants and POPs (Dioxin 2003) (2003.8.28 Boston, MA, USA).
- **Norihiro Kobayashi**, Shigeki Masunaga, Junko Nakanishi: Contributions of PCDD/Fs and dioxin-like PCBs sources in rivers flowing into the Tokyo Bay, Japan. SETAC North America

24th Annual Meeting (2003.11.11 Austin, TX, USA)

- **Norihiro Kobayashi**, Shigeki Masunaga, Junko Nakanishi: Distribution and fate of PCDD/Fs and dioxin-like PCBs in seawater in the Tokyo Bay, Japan. SETAC North America 24th Annual Meeting (2003.11.11 Austin, TX, USA).
- **Norihiro Kobayashi**, Kisaburo Nakata, Tomomi Eriguchi, Fumio Horiguchi, Junko Nakanishi, Shigeki Masunaga: Application of a mathematical model to predict dioxin concentrations in the Tokyo Bay estuary. 24th International Symposium on Halogenated Environmental Organic Pollutants and POPs (Dioxin 2004) (2004.9.7 Berlin, Germany).
- **Norihiro Kobayashi**, Kisaburo Nakata, Tomomi Eriguchi, Shigeki Masunaga, Fumio Horiguchi, Junko Nakanishi: Prediction of dioxin concentrations in the Tokyo Bay estuary using a 3-D chemical fate prediction model. 7th International Marine Environmental Modeling Seminar (2004.10.19 Washington, D.C., USA).
- **Norihiro Kobayashi**, Kikuo Yoshida: Risk assessment of lead for Japanese infants and children based on blood-lead concentrations. SETAC Asia/Pacific 2006 Annual Meeting (2006. 9.20 Beijing, China).
- **Norihiro Kobayashi**, Kikuo Yoshida, Junko Nakanishi: Human health risk assessment of lead in Japan based on the blood lead levels. XI International Congress of Toxicology (ICT 2007) (2007.7.17 Montreal, Canada).
- **Norihiro Kobayashi**, Masato Naya, Shigehisa Endoh, Kazuhiro Yamamoto, Junko Nakanishi: Comparative pulmonary toxicity study of 3 different primary-sized TiO₂ particles in rats. 47th Annual Meeting of the Society of Toxicology (SOT 2008) (2008.3.19 Seattle, WA, USA).
- Masato Naya, **Norihiro Kobayashi**, Shigehisa Endoh, Kazuhiro Yamamoto, Junko Nakanishi: Comparative pulmonary toxicity study of 3 different dispersions of nano-TiO₂ particles in rats. 47th Annual Meeting of the Society of Toxicology, Seattle (SOT 2008) (2008.3.19 Seattle, WA, USA).
- Masato Naya, **Norihiro Kobayashi**, Makoto Ema, Junko Nakanishi: Comparative pulmonary toxicity study of different size of crystalline silica in rats: micron vs. nano-size. 46th Congress of the European Societies of Toxicology (EUROTOX 2009) (2009.9.14 Dresden, Germany).
- **Norihiro Kobayashi**, Masato Naya, Shigehisa Endoh, Junko Maru, Junko Nakanishi: Morphological assessment of multi-wall carbon nanotubes in the lung after intratracheal instillation in rats. 49th Annual Meeting of the Society of Toxicology (SOT 2010) (2010.3.6 Salt Lake City, UT, USA).
- Masato Naya, Makoto Ema, **Norihiro Kobayashi**, Junko Nakanishi: Pulmonary toxicity

assessment of multi-wall carbon nanotubes after single intratracheal instillation in rats. 49th Annual Meeting of the Society of Toxicology (SOT 2010) (2010.3.6 Salt Lake City, UT, USA).

- **Norihiro Kobayashi**, Masato Naya, Makoto Ema, Shigehisa Endoh, Junko Maru, Junko Nakanishi. Toxicological and morphological assessment of multi-wall carbon nanotubes in the lung after intratracheal instillation in rats. Nanotoxicology 2010 (2010.6.4 Edinburgh, UK).
- Takako Oyabu, Toshihiko Myojo, Yasuo Morimoto, Akira Ogami, Masami Hirohashi, Makoto Yamamoto, Motoi Todoroki, Yohei Mizuguchi, Masayoshi Hashiba, Byeong Woo Lee, Manabu Shimada, Wei-Ning Wang, Kazuhiro Yamamoto, Katsuhide Fujita, Shigehisa Endoh, Kunio Uchida, **Norihiro Kobayashi**, Junko Nakanishi, Isamu Tanaka: Deposition and biopersistence of inhaled MWCNT in rat lung. Nanotoxicology 2010 (2010.6.4 Edinburgh, UK).
- Akira Ogami, Yasuo Morimoto, Masami Hirohashi, Takako Oyabu, Toshihiko Myojo, Motoi Todoroki, Makoto Yamamoto, Masayoshi Hashiba, Yohei Mizuguchi, Byeong Woo Lee, Manabu Shimada, Wei-Ning Wang, Kazuhiro Yamamoto, Katsuhide Fujita, Shigehisa Endoh, Kunio Uchida, **Norihiro Kobayashi**, Junko Nakanishi, Isamu Tanaka: Pathological features of rat lung following inhalation and intratracheal instillation of well-characterized fullerene (C₆₀). Nanotoxicology 2010 (2010.6.4 Edinburgh, UK).
- Makoto Ema, **Norihiro Kobayashi**, Masato Naya, Sosuke Hanai, Junko Nakanishi: Review of reproductive and developmental toxicity of manufactured nanomaterials. XII International Congress of Toxicology (IUTOX 2010) (2010.7.21 Barcelona, Spain).
- Masato Naya, Makoto Ema, **Norihiro Kobayashi**, Junko Nakanishi: Pulmonary responses of multi-wall carbon nanotubes after single intratracheal instillation in rats. XII International Congress of Toxicology (IUTOX 2010) (2010.7.22 Barcelona, Spain).
- **Norihiro Kobayashi**, Masato Naya, Makoto Ema, Shigehisa Endoh, Junko Maru, Kohei Mizuno, Junko Nakanishi: Biological response of individually dispersed multi-wall carbon nanotubes in the lung after intratracheal instillation in rats. International Conference on Safe Production and Use of Nanomaterials (NANOSAFE 2010) (2010.11.18 Grenoble, France).
- Masato Naya, **Norihiro Kobayashi**, Shigehisa Endoh, Kohei Mizuno, Ryuichi Nagaosa, Makoto Ema, Junko Nakanishi: Pulmonary toxicity of crystalline silica after a single intratracheal instillation in rats. 50th Annual Meeting of the Society of Toxicology (SOT 2011) (2011.3.9 Washington, D.C., USA).
- Reiji Kubota, Maiko Tahara, Kumiko Shimizu, **Norihiro Kobayashi**, Naoki Sugimoto, Akihiko Hirose, Tetsuji Nishimura: Time-dependent biodistribution of C60 in rat after

tail-vein administration. 47th Congress of the European Societies of Toxicology (Eurotox 2011) (2011.8.30 Paris, France).

- **Norihiro Kobayashi**, Mayumi Kawabe, Fumio Furukawa, Reiji Kubota, Naoki Sugimoto, Tetsuji Nishimura, Akihiko Hirose: Toxicity evaluation of multi-wall carbon nanotubes in rats after tail vein administration. 51st Annual Meeting of the Society of Toxicology (SOT 2012) (2012.3.12 San Francisco, CA, USA).
- Masato Naya, **Norihiro Kobayashi**, Makoto Ema, Sawako Kasamoto, Masahito Fukumuro, Shigeaki Takami, Madoka Nakajima, Makoto Hayashi, Junko Nakanishi: In vivo genotoxicity study of nanosized titanium dioxide particles using comet assay following intratracheal instillation in rats. 51st Annual Meeting of the Society of Toxicology (SOT 2012) (2012.3.12 San Francisco, CA, USA).
- Makoto Ema, Akitaka Matsuda, **Norihiro Kobayashi**, Masato Naya, Junko Nakanishi: Evaluation of dermal and eye irritation and skin sensitization due to carbon nanotubes and fullerenes. 51st Annual Meeting of the Society of Toxicology (SOT 2012) (2012.3.13 San Francisco, CA, USA).
- **Norihiro Kobayashi**, Mayumi Kawabe, Fumio Furukawa, Reiji Kubota, Naoki Sugimoto, Akihiko Hirose: Evaluation of reproductive and developmental toxicity of multi-wall carbon nanotubes in pregnant mice after tail vein administration. 6th International Congress of Asian Society of Toxicology (ASIATOX-VI) (2012.7.20 Sendai, Miyagi, Japan).
- Masato Naya, **Norihiro Kobayashi**, Kazumasa Honda, Makoto Ema, Junko Nakanishi: Pulmonary toxicity assessment of multi-walled carbon nanotubes after single intratracheal instillation in a one-year bioassay of rats. 52nd Annual Meeting of the Society of Toxicology (SOT 2013) (2013.3.11 San Antonio, TX, USA).
- **Norihiro Kobayashi**, Mayumi Kawabe, Hironao Nakashima, Takamasa Numano, Reiji Kubota, Naoki Sugimoto, Akihiko Hirose: Evaluation of reproductive and developmental toxicity of multi-wall carbon nanotubes in pregnant mice after intratracheal instillation. 52nd Annual Meeting of the Society of Toxicology (SOT2013) (2013.3.12 San Antonio, TX, USA).
- Akihiko Hirose, **Norihiro Kobayashi**, Mayumi Kawabe, Hironao Nakashima, Takamasa Numano, Reiji Kubota, Yoshiaki Ikarashi: Developmental toxicity by intratracheal instillation of multi-wall carbon nanotubes in pregnant mice. 6th International Symposium on Nanotechnology, Occupational and Environmental Health (NanOEH) (2013.8.29 Nagoya, Aichi, Japan).
- **Norihiro Kobayashi**, Takamasa Numano, Reiji Kubota, Yoshiaki Ikarashi, Akihiko Hirose: Developmental toxicity assessment of multi-wall carbon nanotubes in pregnant mice after

intratracheal instillation. 53rd Annual Meeting of the Society of Toxicology (SOT 2014) (2014.3.24 Phoenix, AZ, USA).

- **Norihiro Kobayashi**, Reiji Kubota, Ryota Tanaka, Hiroshi Takehara, Masato Naya, Yoshiaki Ikarashi, Akihiko Hirose: Evaluation of teratogenicity of multi-wall carbon nanotubes in pregnant mice after repeated intratracheal instillation. 54th Annual Meeting of the Society of Toxicology (SOT 2015) (2015.3.26 San Diego, CA, USA).
- **Norihiro Kobayashi**, Sho Tanaka, Makoto Ema, Yoshiaki Ikarashi, Akihiko Hirose: Evaluation of developmental toxicity of multi-wall carbon nanotubes in pregnant mice after repeated intratracheal instillation. Society for Risk Analysis 2015 Annual Meeting (2015.12.7 Arlington, VA, USA).
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- Yutaka Abe, **Norihiro Kobayashi**, Motoh Mutsuga, Kyoko Sato, Eri Kishi, Asako Ozaki: Determination of formaldehyde and acetaldehyde levels in PET-bottled mineral water using a rapid and simple analytical method. 6th International Symposium on Food Packaging: Scientific Developments Supporting Safety and Innovation (2016. 11.16 Barcelona, Spain).
- **Norihiro Kobayashi**, Sho Tanaka, Yoshiaki Ikarashi, Akihiko Hirose: Developmental toxicity assessment of various sizes of multi-wall carbon nanotubes in mice after repeated intratracheal instillation to initiate grouping and read across. Society for Risk Analysis 2016 Annual Meeting (2016.12.12 San Diego, CA, USA).
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- **Norihiro Kobayashi**, Yuko Tsuchiya, Yoshiaki Ikarashi: Transformation to a degradation product by hydrolysis of iprodione. Water and Environment Technology Conference 2017 (WET2017) (2017.7.23 Sapporo, Hokkaido, Japan).
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- **Norihiro Kobayashi**, Yuko Tsuchiya, Michiko Hotai, Yoshiaki Ikarashi: Environmental monitoring and fate prediction of human pharmaceuticals in Japanese river water. Water and Environment Technology Conference 2018 (WET2018) (2018.7.15 Matsuyama, Ehime, Japan).
- **Norihiro Kobayashi**, Yoshiaki Ikarashi: Detection and kinetics of human medicine in the aquatic environment. The 45th Annual Meeting of the Japanese Society of Toxicology (2018.7.19 Osaka, Osaka, Japan).
- Motoki Hojo, **Norihiro Kobayashi**, Yuko Hasegawa, Yoshimitsu Sakamoto, Shiho Murakami, Yukio Yamamoto, Yukie Tada, Yuji Taquahashi, Toshinari Suzuki, Akihiko Hirose, Dai Nakae: Relationship between developmental toxicity of multi-wall carbon nanotubes and lung inflammation in pregnant mice after repeated intratracheal instillation. 54th Congress of the European Societies of Toxicology (EUROTOX 2018) (2018.9.4 Brussels, Belgium).
- **Norihiro Kobayashi**, Yuko Tsuchiya, Sokichi Takagi, Takashi Miyawaki, Kiwao Kadokami, Yoshiaki Ikarashi: Monitoring of 176 agricultural chemicals in raw water and tap water by GC/MS screening analytical method. SETAC North America 39th Annual Meeting (2018. 11. 5 Sacramento, CA, USA).
- Sokichi Takagi, **Norihiro Kobayashi**, Takashi Miyawaki, Fumie Adachi, Jin Yoshida, Yuko Tsuchiya, Kiwao Kadokami: Development of an analytical screening method for agricultural chemicals in drinking water using GC-MS. SETAC North America 39th Annual Meeting (2018. 11. 5 Sacramento, CA, USA).
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- **Norihiro Kobayashi**, Yuko Tsuchiya, Sokichi Takagi, Yoshiaki Ikarashi: Application and quantitative accuracy evaluation of GC/MS target screening analytical method for agricultural chemicals in raw and ground water. SETAC North America 40th Annual Meeting (2019.11.4 Toronto, ON, Canada).

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- **Norihiro Kobayashi**, Yuko Tsuchiya, Sokichi Takagi, Yoshiaki Ikarashi: GC/MS target screening method for 176 agricultural chemicals in drinking water samples. SETAC North America 41st Annual Meeting (2020.11.16 Online).
- Sokichi Takagi, Yuki Hasegawa, Maoko Koike, Jin Yoshida, Fumie Adachi, **Norihiro Kobayashi**, Kiwao Kadokami, Nobuyasu Yamaguchi: Concentrations of agricultural chemicals in water sources by the target screening method using LC-QTOF-MS-SWATH. SETAC North America 41st Annual Meeting (2020.11.16 Online).
- Katsuyoshi Horibata, Motoki Hojo, Tomoko Ando, Satoshi Yokota, Yuhji Taquahashi, **Norihiro Kobayashi**, Hironao Takasawa, Shuishi Hamada, Keiichi Sugiyama, Masamitsu Honma: *In Vivo* Genotoxicity Assessment of Multi-Walled Carbon Nanotubes Using the Optimized Lung Micronucleus Assay. Environmental Mutagenesis & Genomics Society Virtual Annual Meeting (2021.9.22-25 Online).
- **Norihiro Kobayashi**, Yuko Tsuchiya, Sokichi Takagi, Yoshiaki Ikarashi: GC/MS target screening method for 176 agricultural chemicals in drinking water samples. Nontarget Analysis for Environmental Risk Assessment, SETAC Focused Topic Meeting (2022.5.22–26 Durham, NC, USA).
- **Norihiro Kobayashi**, Sokichi Takagi, Teruaki Kinoshita, Osamu Sakata, Fumi Nakano, Naoto Watanabe, Azumi Nomura, Nobuyuki Kawai, Toshiya Hiraiwa, Manabu Okumura, Koji Furukawa, Tomohiro Kasuya, Noritomo Iwama, Jun Yonekubo, Reika Takahara, Seiya Tanaka, Yuko Tsuchiya, Yoshiaki Ikarashi: Development and validation of an analytical method for simultaneous determination of perfluoroalkyl acids in drinking water by liquid chromatography/tandem mass spectrometry. Water and Environment Technology Conference Online 2022 (WET2022-online) (2022.7.9–10 Online).
- **Norihiro Kobayashi**, Yuko Tsuchiya, Yoshiaki Ikarashi: Occurrence of 111 human pharmaceuticals in Japanese water environment. Water and Environment Technology Conference 2023 (WET2023-online) (2023.7.9 Online).
- **Norihiro Kobayashi**, Yuko Tsuchiya, Sokichi Takagi, Yoshiaki Ikarashi: Development of an analytical method for simultaneous determination of PFAS in Japanese drinking water by liquid chromatography/tandem mass spectrometry (LC/MS/MS). SETAC North America 44th Annual Meeting (2023.11.14 Louisville, KY, USA).
- Sokichi Takagi, Jin Yoshida, **Norihiro Kobayashi**: Detection of PFAS in water repellents in the Japanese market and estimation of their environmental impact. SETAC North America 44th Annual

Meeting (2023.11.15 Louisville, KY, USA).

- Hiroshi Yamamoto, Yoshikazu Ninomiya, Haruna Watanabe, Takahiro Yamagishi, **Norihiro Kobayashi**, Yoshiaki Ikarashi, Takashi Yamada, Akihiro Hirose: Ecological risk assessment of human pharmaceuticals detected in Japan and establishment of ecotoxicity database. SETAC Europe 34th Annual Meeting (2024.5.5–9 Seville, Spain).
- **Norihiro Kobayashi**, Yuko Tsuchiya, Sokichi Takagi, Nahoko Uchiyama: Occurrence of 80 Per- and Polyfluoroalkyl Substances (PFASs) in Japanese Aquatic Environment. Water and Environment Technology Conference 2024 (WET2024) (2024.7.20–21, Okayama, Okayama, Japan).
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- Sokichi Takagi, Jin Yoshida, Mayumi Miura, Toshiaki Yoshida, **Norihiro Kobayashi**, Satoshi Takatori: Elucidating the environmental impact of neutral PFAS in waterproofing sprays in the Japanese market. SETAC North America 45th Annual Meeting (2024.10.20–24 Fort Worth, TX, USA).
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