

博士課程学生・修了生プロフィール（東京農工大学大学院連合農学研究科）掲載一覧
 Profile of doctoral students and graduates (UGSAS, TUAT)

No.	専門分野 Specialized field	氏名 Full name	配置大学 Assigned university
1	Agricultural and Environmental Engineering	Rahmatullah Hashimi	Ibaraki University
2	Watershed Management/bedrock groundwater	Nguyen Thi My LINH	TUAT
3	Agricultural and Environmental Engineering	Ratih Kemala Dewi	Ibaraki University
4	Civil engineering / Forest management	Rozaqqa Noviandi	TUAT
5	大気環境学、大気沈着	徐 懋	東京農工大学
6	Symbiotic science of environment and natural resources	RITONGA Rasis Putra	TUAT
7	Mycovirus studies / Molecular Biology studies	WU, CHIEN-FU	TUAT
8	植物栄養学	安掛 真一郎	東京農工大学
9	農業農村工学・農業土木学・地盤工学	王 博涵	茨城大学
10	農業水利学、農業工学	林 曉嵐	茨城大学
11	農業環境工学	菊地 麗	東京農工大学
12	環境化学、環境毒性学	寶來 佐和子	東京農工大学

No. 1

Name of United Graduate School of Agricultural Sciences	Assigned university	Name
TUAT	Ibaraki univ.	Rahmatullah Hashimi
Specialized field	Agricultural and Environmental Engineering	
Research Theme	Long term no-tillage and cover crop management affect soil quality, soil C sequestration, and net global warming potential	
Obtained (planned) degree Acquired degree (planned) date	Doctor of Philosophy Ph.D. (Agriculture) Acquisition in March 2024 (scheduled)	
Message		
<p>Soil organic matter is one of the most important and prominent components closely associated with soil quality, crop production, and global warming potential. Therefore, reducing SOC in the soil can substantially change the global warming potential. I got a master's degree in regional environmental science from Ibaraki University in 2016. My research was about how organic no-tillage and conventional tillage along with weed mulch affect soil quality and crop yield. I have published 3 papers from my master thesis in the international journal as you can see below. In the doctor course, I am measuring how long-term different tillage and cover crop management affect soil quality and global warming protentional in andosol soil, Japan. Additionally, incorporating such tillage and cover cropping systems and making policies regarding NT practices will improve soil quality, advance food security, and ensure environmental sustainability. After getting a Ph.D. degree, my goal is to get lifetime employment. I would like to carry out research and educational practices and grow my new skill set in my professional environment. I will boot my experiences more with collaborating with others. The combination of my academic experiences and achievement in my country and Japan will make me more qualified for future employment. I am a verified associate trainer of outcome-based education from Universiti Teknologi Malaysia. I had academic trips about leadership, education, etc. to different countries such as the USA, Malaysia, Philippines, India, and Japan. I have multiple cultural and life experiences from these countries.</p> <p>Qualification: Soil scientific researcher, monitoring and developing soil quality and global warming potential</p> <p>Laboratory homepage: http://agroecology.agr.ibaraki.ac.jp/wp/</p> <p>Main published papers:</p> <ol style="list-style-type: none"> 1. Hashimi, R., Kaneda, S., Kaneko, N., Ohta, H., & Komatsuzaki, M. (2020). Aggregate distribution and substrate-induced respiration under different tillage and mulching management systems in organic farming. <i>Soil Science and Plant Nutrition</i>, 66(6), 878-888. https://doi.org/10.1080/00380768.2020.1824534 2. Hashimi, R., Matsuura, E., & Komatsuzaki, M. (2020). Effects of cultivating rice and wheat with and without organic fertilizer application on greenhouse gas emissions and soil quality in Khost, 		

- Afghanistan. *Sustainability*, 12(16), 6508. <https://doi.org/10.3390/su12166508>
3. Hashimi, R., Komatsuzaki, M., Mineta, T., Kaneda, S., & Kaneko, N. (2019). Potential for no-tillage and clipped-weed mulching to improve soil quality and yield in organic eggplant production. *Biological Agriculture & Horticulture*, 35(3), 158-171. <https://doi.org/10.1080/01448765.2019.1577757>
 4. Matsuura, E., Komatsuzaki, M., & Hashimi, R. (2018). Assessment of soil organic carbon storage in vegetable farms using different farming practices in the Kanto Region of Japan. *Sustainability*, 10(1), 152. <https://doi.org/10.3390/su10010152>
 5. Hashimi, R., & Hashimi, M. H. (2020). Effect of Losing Nitrogen Fertilizers on Living Organism and Ecosystem, and Prevention Approaches of their Harmful Effect. *Asian Soil Research Journal*, 10. <https://doi.org/10.9734/asrj/2020/v4i230088>
 6. Hashimi, R., & Habibi, H. K. (2021). Effects of Organic and Inorganic Fertilizers Applications Levels on Greenhouse Tomato (*Solanum Lycopersicum*) Yield and Soil Quality in Khost Province. *Asian Journal of Soil Science and Plant Nutrition*, 7(4), 8. [10.9734/ajsspn/2021/v7i430117](https://doi.org/10.9734/ajsspn/2021/v7i430117)
 7. Hashimi, M. H., Hashimi, R., & Ryan, Q. (2020). Toxic effects of pesticides on humans, plants, animals, pollinators, and beneficial organisms. *APRJ*, 5(4), 37-47. <https://doi.org/10.9734/aprj/2020/v5i430114>
 8. Ryan, Q., Geetha, K. N., Hashimi, R., Atif, R., & Habimana, S. Growth and Yield of Soybean [*Glycine max* (L.) Merrill] as Influenced by Organic Manures and Superabsorbent Polymers. <https://doi.org/10.9734/jeai/2020/v42i630541>
 9. Matsuura, E., Hashimi, R., Muramatsu, D., & Komatsuzaki, M. (2016). Sustainable assessment of a vegetable farm using grass mulch in Japan. *Acta Fytotechnica et Zootechnica*, 18(5), 31-33. <http://dx.doi.org/10.15414/afz.2015.18.si.31-33>

No. 2

Name of United Graduate School of Agricultural Sciences	Assigned university	Name
TUAT	TUAT	Nguyen Thi My LINH
Specialized field	Watershed Management / bedrock groundwater	
Research Theme	<ul style="list-style-type: none"> • Evaluating effect of bedrock groundwater on runoff generation • Modeling hydraulic conductivities of Bedrock and its effects on runoff response in nested catchments 	
Obtained (planned) degree Acquired degree (planned) date	Doctor of Philosophy Ph.D (Agriculture) Acquisition in September 2024 (scheduled)	
Message		
<p>Forested headwater catchment has been recognized as the important source of water delivered for downstream water supply. Thus, the management of forested watershed is critical for protection and distribution of water resources. I am broadly interested in understanding the hydrological processes in forested watershed, which are complicated, yet closely linked with each other. I have focused on forest hydrology since I was an undergraduate student. In my master's thesis I have been studying the response of runoff generation and bedrock groundwater in a headwater catchment underlain by sedimentary rock. During my doctoral course, I am going to conduct the detail hydrometric analysis and modeling to evaluate the effect of bedrock groundwater on runoff generation processes in nested catchments in Tochigi prefecture, Japan. In future, I would like to get a job or a position where I can carry out research and educational practices in the fields of forest hydrology and watershed management. I want to enhance my understanding about this field and contribute my knowledge to the development of forest management practices that could maximize the protection and regulation of water.</p> <p>Qualification: Groundwater Hydrologist, Water Resource Engineer, Lecturer.</p> <p>Laboratory homepage: https://web.tuat.ac.jp/~gomit/index.html</p>		

No. 3

Name of United Graduate School of Agricultural Sciences	Assigned university	Name
TUAT	Ibaraki univ.	Ratih Kemala Dewi
Specialized field	Agricultural and Environmental Engineering	
Research Theme	<ul style="list-style-type: none"> • Soil carbon sequestration under organic no-till farming • Carbon dioxide emission under organic no-till farming 	
Obtained (planned) degree Acquired degree (planned) date	Doctor of Philosophy, Ph.D (Agriculture) Acquisition in September 2023 (scheduled)	
Message		
<p>Soil is strongly important not only for crops production but also for the carbon sink. However, degraded soil has been increasing globally. More than 75% of land area in the world are degraded. Carbon farming is one way to overcome this problem through restoring the carbon in the soil while producing a good crop by the certain practice that can promote soil health and mitigate the global warming. Many of these practices are commons in organic farming and regenerative agriculture such as no-till, using cover crops, plant rotation, integrated pest management practices, and using the biomass residue as an organic matter. Now, I am on going to assess the soil health under long-term no-tillage organic farming in combination with cover crops and biochar. I also measure the carbon dioxide emission from this system. In the future, I would like to promote this conservative technology to the farmer in my country, Indonesia, to improve their crops productivity with environmentally friendly.</p> <p>Qualification: Agronomist, Soil quality assurance</p> <p>Laboratory homepage: http://agroecology.agr.ibaraki.ac.jp/</p> <p>Main published papers: Ratih Kemala Dewi, Masatake Fukuda, Naoya Takashima, Atsushi Yagioka & Masakazu Komatsuzaki (2021) Soil carbon sequestration and soil quality change between no-tillage and conventional tillage soil management after 3 and 11 years of organic farming, <i>Soil Science and Plant Nutrition</i>, 68:1, 133-148, DOI: 10.1080/00380768.2021.1997552</p> <p>URL: https://www.tandfonline.com/doi/epub/10.1080/00380768.2021.1997552?needAccess=true</p>		

No. 4

Name of United Graduate School of Agricultural Sciences	Assigned university	Name
TUAT	TUAT	Rozaqqa Noviandi
Specialized field	Civil engineering / Forest management	
Research Theme	<ul style="list-style-type: none"> • Evaluating the effect of root reinforcement on slope stability • Examining the mobility of landslides initiated from forested hillslopes 	
Obtained (planned) degree Acquired degree (planned) date	Doctor of Philosophy, Ph.D. (Agriculture) Acquisition in September 2023 (scheduled)	
Message		
<p>Vegetation cover greatly affects the vulnerability towards slope instabilities, particularly shallow landslides. Vegetation root systems are capable to reinforce soil structures and thereby improve slope stability. I am interested in investigating the role and function of vegetation root systems in mitigating slope instabilities. In my recent study, I am developing an experimental method for evaluating the effect of vegetation root systems on the initiation and mobility of rainfall-induced shallow landslides, under various vegetation density conditions. This study is typically difficult to be done in field-based investigations and by using remote sensing-based techniques. Through this study, I would like to contribute to the establishment of a safe and secure society for future generations. In particular, since I am specialized in civil (geotechnical) engineering and forest management, I would like to develop a nature-based solution for landslide mitigation, which is more cost-effective and environmentally friendly compared to conventional structural approaches. Thus, I am seeking a job or position where I can carry out research and educational practices in the fields of landslide risk reduction and mitigation.</p> <p>Qualification: Geotechnical engineer, researcher</p> <p>Laboratory homepage: https://web.tuat.ac.jp/~gomit/gomi.html</p>		

No. 5

連合農学研究科	配属大学	氏名
東京農工大学	東京農工大学	徐 懋
専門分野	大気環境学、大気沈着	
研究テーマ	粒子・ガス状物質の大気-地表面間交換に関する研究	
取得（予定）学位 取得（予定）年月	博士（農学）	2023年3月 取得（予定）
メッセージ		
<p>「未解明な部分が多く残されている反応性窒素（Nr）の大気-地表面間交換プロセスを解明し、東アジア域におけるNrの動態把握に資すること」を主な研究目的としています。この目的を達成するため、森林・農地サイトにおけるNrフラックス観測や大気化学輸送モデルにおけるパラメタリゼーションの更新等のアプローチにしたがって、日々の研究を進めています。</p> <p>[個人 HP] : https://xumaolab.web.fc2.com/index.html</p> <p>[主な公表論文] :</p> <p>① Mao Xu, Kenta Kasahara, Atsuyuki Sorimachi, Kazuhide Matsuda. Nitric acid dry deposition associated with equilibrium shift of ammonium nitrate above a forest by long-term measurement using relaxed eddy accumulation, <i>Atmospheric Environment</i>, 256, 118454 (2021). DOI: https://doi.org/10.1016/j.atmosenv.2021.118454</p> <p>② Mao Xu, Kazuhide Matsuda. Dry deposition of PM2.5 nitrate in a forest according to vertical profile measurements, <i>Asian Journal of Atmospheric Environment</i>, 14, pp. 367-377 (2020). DOI: https://doi.org/10.5572/ajae.2020.14.4.367</p> <p>[取得資格] : 技術士第1次試験合格者（環境部門）</p>		

No. 6

Name of United Graduate School of Agricultural Sciences	Assigned university	Name
TUAT	TUAT	RITONGA Rasis Putra
Specialized field	Symbiotic science of environment and natural resources	
Research Theme	<ul style="list-style-type: none"> • Evaluating the effect of forest management and land covers on earthquake-induced landslides 	
Obtained (planned) degree Acquired degree (planned) date	Doctor of Philosophy, Ph.D. (Agriculture) Acquisition in September 2023 (scheduled)	
Message		
<p>Anthropogenic activities have been the subject of great debate over the last decade due to the escalation of disaster occurrences that were likely human-induced, with no exception for forest management. I am very keen on studying the relationship between forest management and the occurrence of landslides.</p> <p>You could say, forestry has been a part of my life even from my undergrads, thus I was a wood scientist back then. Not stopping there, I decided to observe forestry from a wider perspective, while at the same time I learned geology, earthquake, and computer science. Therefore, the topic of my double master's degree is closely related to the assessment of land cover and topography on the occurrence of earthquake-induced landslides in Japan, mainly using GIS and Remote Sensing techniques. My curiosity about whether forest management could exacerbate such disasters had led me to analyze the linkage between deforestations and logging constructions on the occurrence of landslides induced by an earthquake in Japan during my Ph.D.</p> <p>From now onwards, I want to become a researcher that could perform a study related to forest, disaster, and human existences so that we as a human can utilize forests in a good direction while maintaining disaster prevention. I hope to become an important “bridge” between Japan and Indonesia so that future bilateral cooperation will be established in the context of international disaster management studies.</p> <p>Laboratory homepage: https://web.tuat.ac.jp/~gomit/gomi.html</p> <p>Main publication: <u>Rasis Putra Ritonga</u>, Takashi Gomi, Suria Dharma Tarigan, Regan Leonardus Kaswanto, Hefryan Sukma Kharismalatri, Rozaqqa Noviandi, Yohei Arata, Yoshiharu Ishikawa, “Land Cover and Characteristics of Landslides Induced by the 2018 Mw6.7 Eastern Iburu Earthquake, Hokkaido”, <i>International Journal of Erosion Control Engineering</i>, Vol. 13, No. 3, 2021</p>		

No. 7

Name of United Graduate School of Agricultural Sciences	Assigned university	Name
TUAT	TUAT	WU, CHIEN-FU
Specialized field	Mycovirus studies / Molecular Biology studies	
Research Theme	Identifications of the novel mycoviruses Investigation of virus-host interaction	
Obtained (planned) degree Acquired degree (planned) date	Doctor of Philosophy, Ph.D (Agriculture) Acquisition in September 2022 (scheduled)	
Message		
<p>Hello, I'm Wu, Chien-Fu. I'm from Taiwan. During my master's course, I worked on the identification of plant viruses, and the development of viroid detection methods. The rapid viroid detection system we established, is very helpful for crops quarantine.</p> <p>Now, I'm working in the mycovirus field. Generally, mycoviruses are viruses that can infect fungi. Now, mycoviruses can be found in most of the fungal genera. In my publication in 2021, our group found the first viral dsRNA genome having 5'/3' terminal structures. In the future, I will investigate the stability and mechanism of this kind of dsRNA molecules. If there are any opportunities for collaboration, please don't hesitate to contact me.</p> <p>Laboratory homepage: http://web.tuat.ac.jp/~mcb/</p> <p>Main published papers:</p> <p>➤ Article</p> <ul style="list-style-type: none"> ● Wu, C.-F., Aoki, N., Takeshita, K., Takeshita, K., Fukuhara, T., Chiura X.H., Arie T., Komatsu, K., Okada, R. & Moriyama, H. (2021) Unique terminal regions and specific deletions of the segmented double-stranded RNA genome of <i>Alternaria alternata</i> virus 1, in the proposed family <i>Alternaviridae</i>. <i>Front. Microbiol.</i> -Virology. DOI: 10.3389/fmicb.2021.773062 ● Tseng, Y.-W., Wu, C.-F., Lee, C.-H., Chen, Y.-K., & Jan, F.-J. (2021) Universal primers for rapid detection of six pospiviroids in Solanaceae plants using one-step RT-PCR and RT-LAMP. <i>Plant Disease</i>. DOI: 10.1094/PDIS-12-20-2730-RE <p>➤ Chapter</p> <ul style="list-style-type: none"> ● Moriyama, H., Aoki, N., Fuke, K., Urayama, K. T., Takeshita, N. & Wu, C.-F., (2021) <i>Alternaviruses</i>. <i>Encyclopedia of Virology (Fourth Edition)</i>, Volume 4, Pages 544-548, Academic Press. DOI: 10.1016/B978-0-12-814515-9.00031-X 		

No. 8

連合農学研究科	配置大学	氏名
東京農工大学	東京農工大学	安掛真一郎
専門分野	植物栄養学	
研究テーマ	バチルス芽胞バイオ肥料のイネ実用栽培技術への応用と植物生長促進物質の探索	
取得（予定）学位 取得（予定）年月	博士（農学）	2022年3月 取得
メッセージ		
<p>【性別】 男、 【年齢】 27歳、 【国籍】 日本 【ResearchGate】 https://www.researchgate.net/profile/Shin-Ichiro-Agake 【クラウドファンディング HP】 https://academist-cf.com/fanclubs/227?lang=ja 【Twitter】 https://twitter.com/shinagal 【Facebook】 https://www.facebook.com/shinichiro.agake 【LinkedIn】 https://www.linkedin.com/in/shin-ichiro-agake-96536318a/ 【所属研究室 HP】 http://web.tuat.ac.jp/~plantnut/ 【資格】 危険物甲種 【特技】 剣道・書道 【研究内容について】 慣行農業における大きな課題は、化学肥料への依存度を減らすことです。現在、化学肥料の過剰施用が引き起こす環境への負荷は、食糧生産全体の30%を占めています。そこで、植物と共生する微生物の力を用いて作物の生産力を高める資材が注目を浴びており、それが「バイオ肥料」と呼ばれています。私は、バチルス属細菌の芽胞を利用することで長期保存を可能にしたバイオ肥料「ゆめバイオ」のイネ栽培技術への応用と、芽胞が独自に示す未解明の植物生長促進作用機構の解明を研究しています。</p>		

No. 9

連合農学研究科	配置大学	氏名
東京農工大学	茨城大学	王 博涵
専門分野	農業農村工学・農業土木学・地盤工学	
研究テーマ	<ul style="list-style-type: none"> ・ため池やパイプラインの地震時の定量的な挙動予測 ・土・地盤の繰返しによる強度低下特性 	
取得（予定）学位 取得（予定）年月	博士（農学）	2022年3月 取得
メッセージ		
<p>私は、学部学生の時から農業農村工学を専攻し、修士論文では大規模ため池の地震時挙動について研究してきました。博士課程では定量的な構造物の地震時破壊予測手法の開発を実施しました。将来は、地震時の防災減災に関連した幅広い分野の研究や実践が行える仕事につきたいと考えています。</p> <p>生年月日：1993年12月7日 性別：男 国籍：中国 取得資格：測量士補 研究室のホームページ：http://geotech.agr.ibaraki.ac.jp/MohriLab/index.html 主な公表論文：</p> <ol style="list-style-type: none"> 1) 王博涵、田頭秀和、泉明良、毛利栄征、田中忠次「ため池堤体の石積みブロック補強に関する遠心振動実験と解析的検討」、『ジオシンセテックス論文集第33巻』、国際ジオシンセテックス学会日本支部出版、pp.167—174、2018 2) 王博涵、毛利栄征、小野尚二、鈴木和志、田中忠次「平成30年北海道胆振東部地震で被災した厚幌導水路の曲管部挙動」、『農業農村工学会論文集2022年90巻1号』、農業農村工学会出版、pp.I_83—I_91、2022 		

No. 10

連合農学研究科	配置大学	氏名
東京農工大学	茨城大学	林 暁嵐
専門分野	農業水利学、農業工学	
研究テーマ	水田・湿地土壌における窒素除去速度に与える要因とその推定方法	
取得（予定）学位 取得（予定）年月	博士（農学）	2019年9月 取得
メッセージ		
<p>農業生産での化学肥料の大量施用が引き起こした環境問題は世界各地で発生しています。私の母国である中国も農業大国であるがゆえに、環境汚染の問題が特に深刻です。私は幼いころから水質汚濁による湖沼の魚の大量死などを目の当たりにし、環境汚染の被害を身に染みて感じていました。霞ヶ浦流域は1970年代から湖沼の水質改善を目的に、さまざまな研究や対策がなされてきました。これまで約50年間蓄積されたこれらの経験を学びたいと考え、私は学生時代の8年間霞ヶ浦流域の窒素循環について取り組み、校内のみならず、公的な機関、NPO法人など多方の協力を研究得て行いました。そしてその経験を生かして、2021年4月から福島県環境創造センターに赴任し、福島県のシンボルである猪苗代湖の水質問題に取り組んでいます。現在、人間活動によって地球環境が刻一刻破綻に向かっているといます。自分の研究が少しでも持続可能な地域・社会づくりに貢献できるよう頑張っていきたいと考えています。</p> <p>取得資格：なし 研究室のホームページ：なし</p> <p>主な公表論文： 林ら（2019）温度変数に着目した水田・湿地の窒素除去速度推定方法の改良，農業農村工学論文集, 87(2), I_189-I_195. URL: https://www.jstage.jst.go.jp/article/jsidre/87/2/87_I_189/_article/-char/ja/</p> <p>箭田ら（2020）緩効性肥料による水田からの窒素流出低減効果，日本土壌肥料学雑誌, 91(5), 351-365. URL: https://www.jstage.jst.go.jp/article/dojo/91/5/91_910502/_article/-char/ja/</p> <p>Lin et al.(2021) Combined effects of oxygen and temperature on nitrogen removal in a nitrate-rich ex-paddy wetland, STOTEN, 779, 146254. URL: https://www.sciencedirect.com/science/article/abs/pii/S004896972101322X</p>		

No. 11

連合農学研究科	配置大学	氏名
東京農工大学	東京農工大学	菊地 麗
専門分野	農業環境工学	
研究テーマ	急傾斜法面対応小型草刈機の開発、農作業支援アプリの開発	
取得（予定）学位 取得（予定）年月	博士（農学）	2017年9月 取得
メッセージ		
<p>農研機構西日本農業研究センター中山間営農研究領域生産環境・育種グループに所属し、中山間地域対応小型管理機械利用技術の開発を担当しています。現在は、急傾斜畦畔対応小型草刈機および畦畔管理のための農作業支援アプリの開発を進めています。女性ならではの視点から、女性の担い手にマッチした軽量・小型農業機械、使いやすい Web アプリ UI の開発に取り組んでいます。</p> <ul style="list-style-type: none"> ・急傾斜法面に対応した小型草刈ロボットの開発 https://doi.org/10.4035/jsfwr.55.155 ・農研機構西日本農業研究センター中山間営農研究領域生産環境・育種グループ https://www.naro.go.jp/laboratory/warc/introduction/chart/0202/index.html 		

No. 12

連合農学研究科	配属大学	氏名
東京農工大学	東京農工大学	寶來佐和子
専門分野	環境化学、環境毒性学	
研究テーマ	高濃度水銀蓄積動物種におけるメチル水銀及び必須微量元素の曝露実態と用量-反応関係に関する研究	
取得（予定）学位 取得（予定）年月	博士（農学）	2006年9月 取得
メッセージ		
<p>こんにちは。東京農工大学を巣立ってからおよそ15年の月日が経ちました。現在の研究テーマのきっかけを作ってくれたのは、当時の指導教員である渡邊泉先生です。当時からずっと、野生動物を用いた微量元素の環境モニタリングと毒性影響評価を主軸に研究を続けております。とくに体内に水銀を高蓄積しているフィリマングースや海生哺乳類に焦点を当てています。実験の中で苦しい思いを多々経験しましたが、好奇心に勝るものはないとつくづく感じます。</p> <p>昨年からは環境省国立水俣病総合研究センターに赴任し、その業務遂行上、「福祉」や「加齢」を意識する機会に恵まれました。食事、身だしなみ、排泄、外出、入浴といった私たちが特段意識せずに日頃やっていることが、高齢化することで、それら動作が困難になるという、これまた当たり前のことに直面した衝撃は大きかったです。私たち人間は、毒性試験に多くの実験動物を用いて知見を得ていますが、加齢に伴う化学物質の影響を評価することは極めて困難です。水俣病はメチル水銀中毒であり、現在、高齢化する水俣病患者の多くに高齢に伴う影響が顕在化しています。人のための研究をしたいと強く考えるようになった昨今です。</p>		