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名古屋大学大学院医学系研究科の進む道 ～社会構造変化とAI革命の中で

Future Path of Nagoya University Graduate School of Medicine
— Amidst Social Structural Change and the AI Revolution

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名古屋大学医学部・大学院医学系研究科は、1871年創設の仮病院・仮医学校を起源とし、150年以上の歴史を有しています。この伝統のもと、医学・医療の進歩に資する研究と教育を推進してまいりました。研究面では、希少疾患を含む難治性疾患の病態解明と治療法開発、基礎と臨床をつなぐトランスレーショナルリサーチ、先端イメージングやオミックス解析などのデータサイエンス領域で世界的成果を挙げています。その背景には、長年蓄積された知見に加え、柔軟で独創的な発想、総合大学としての融合研究、国内外のアカデミアや企業との連携があります。学内外ではCOMIT、iGCORE、C-REXなどの拠点への参画や、メディカルイノベーション推進室を核とした産学連携により、研究の高度化と社会実装を進めています。

教育面では、知的好奇心と科学的思考を備え、新たな医療を切り拓く人材育成を重視しています。自由闊達な学風のもと、海外留学や研究・臨床実習を通じて自主性を育み、卒業後も臨床と学術の両面から医療を担う人材を輩出しています。大学院では専門研究に加え、情報学や臨床研究リテラシー、国際性・多様性の涵養に注力し、JDPや卓越大学院プログラムなどの分野横断的教育を展開しています。さらにSTATION Aiとの連携によるアントレプレナー教育も推進しています。

今後、少子高齢化や環境変化に伴う疾患構造の変化、感染症や災害リスクの増大など、医療を取り巻く課題は複雑化しています。一方で、遺伝子・免疫・細胞治療やAI、量子技術など革新的医療の進展も加速しています。研究環境ではデータの大規模化と成果要求の高度化が進む中、限られた時間で効率的に成果を創出するための戦略的研究計画と連携が不可欠です。本研究科はAI for Scienceに対応した研究基盤と人材ネットワークの構築を進め、地域・国際・産学官連携によるイノベーション創出と人材育成を通じて社会に貢献してまいります。

The Nagoya University School of Medicine and Graduate School of Medicine trace their origins to a provisional hospital and medical school established in 1871 and today stand on a foundational heritage of more than 150 years. Based on this tradition, the university has sustained an unwavering commitment to research and education that advance medicine and healthcare. University research has achieved global recognition in the fields of pathological research and the treatment of rare and intractable diseases, translational research bridging basic and clinical areas, and the data sciences encompassing advanced imaging and omics analysis. Underpinning these achievements is the integration of the strengths of the university: a long history of accumulating knowledge and a culture of generating flexible and creative ideas, promoting interdisciplinary research as a comprehensive university, and collaborating with academia and businesses in Japan and internationally. On and off campus, the university participates in research hubs that include the Center for One Medicine Innovative Translational Research (COMIT), the Institute for Glyco-care Research (iGCORE), and the Center for Research, Education, and Development for Healthcare Life Design (C-REX). With the Medical and Healthcare Innovation Unit as its core, the university actively promotes industry-academia collaboration and thereby advances its research toward societal implementation.

In education, the university focuses on developing human resources with demonstrated intellectual curiosity and clear scientific viewpoints who are equipped to pioneer new frontiers in healthcare. Within an open-minded academic culture, the university fosters autonomy in students through study abroad programs, research activities, and clinical practice so that students are prepared to lead healthcare in both clinical and academic settings upon graduation. At the graduate level, the focus extends beyond specialized research to encompass a broader acquisition of literacy. Students study informatics and clinical research, develop international skills, and engage with diverse perspectives while benefitting from an interdisciplinary education through the Joint Degree Program (JDP) and the Doctoral Program for World-leading Innovative & Smart Education. The university promotes entrepreneurship programs in collaboration with STATION Ai.

The healthcare landscape presents the university with issues that are increasing in complexity, such as the changing disease demography due to the declining birthrate, an aging population coupled with environmental changes, and an increasing number of infectious diseases and disaster risks. On the other hand, the pace of innovative therapies is accelerating rapidly with gene therapy, immunotherapy, cell therapy, and the introduction of AI and quantum technology. In the research environment, strategic research planning and collaboration are essential in order to efficiently generate meaningful discoveries in a limited amount of time as the volume of data handled increases and the level of required achievements becomes higher. The Graduate School will contribute to society by promoting the establishment of a research base and the use of human resource networks capable of harnessing AI for science, as well as lead the drive toward innovation and develop human resources through regional, international, and industry-academia-government collaboration.

総合保健学統括専攻長・保健学科長

Head of the School of Health Sciences
Director of the Graduate School of Medicine
(Health Sciences)

早川 文彦

HAYAKAWA, Fumihiko

世界水準の研究力をもった次世代情報化社会における ヘルスケアサイエンティストの育成を目指す

Cultivating healthcare scientists capable of
globally competitive research in a next-generation digitalized society

名古屋大学医学部保健学科は、1997年(平成9年)に国内では数少ない5専攻(看護学、放射線技術科学、検査技術科学、理学療法学、作業療法学)を有する医学部保健学科として設置されました。2012年(平成24年)には、大学院医学系研究科として大学院中心の研究・教育組織へと組織強化を進め、2020年度(令和2年度)には、来るべき情報化社会の中で様々な医療関連分野でリーダーとなる“ヘルスケアサイエンティスト”の育成を目指す「総合保健学専攻」として情報科学の研究と教育を取り入れた新たな大学院体制へと組織改編を行いました。そして、名古屋大学が掲げる「世界屈指の知的成果を産み出す」、「勇気ある知識人を育てる」という基本目標のもとに、学生が夢を描いて成長し、情報リテラシーと国際力をもった保健医療の担い手として、国内外で医療専門職にとどまらない幅広い分野で社会に貢献する人材となっていくための研究教育活動に取り組んでいます。

本邦では社会全体の情報化とともに医療情報科学がめざましく発展し、革新的先端医療技術の開発が加速されるとともに日常の保健医療にも変革の波が押し寄せています。これらの変化に適応できるように、本学科・大学院の教育では、臨床現場である病院との連携に加え、従来の専門領域に情報科学を取り入れた研究・教育の充実に努めています。さらに、「情報・生命医科学コンボリューション on グローカルアライアンス卓越大学院」(大学院プログラム)及び「次世代のがんプロフェッショナル養成プラン(東海がんプロ)」(2023年度・文部科学省採択)への参画により、世界水準の研究の推進に努め、これらにより次世代の情報化医療、革新的先端保健医療システムの構築、さらには人口の高齢化に伴う慢性疾患患者の増加に対応するための次世代の予防医療―個別化予防―の実現、発展に貢献する人材の育成、研究の推進を図っています。

激しく変化する社会やこれまで経験したことのない世界的な事象の中で、急激に進行する少子高齢化と地域による医療格差の拡大など、保健医療分野に山積する問題に対して、次世代の保健医療研究およびヘルスケアサイエンティストの育成を問題解決の推進力とするための取り組みを進めていきたいと考えています。

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Professor at the Graduate School
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Current post since 2026.
Fields of Specialization:
Omics Medical Science and Cellular and Genetic Sciences

Nagoya University School of Health Sciences was established in 1997 as a school of health sciences within the faculty of medicine offering five specialization programs, which was rare in Japan, in Nursing, Radiological Technology, Medical Technology, Physical Therapy, and Occupational Therapy. In 2012, its organization has been strengthened as the Graduate School of Medicine to a graduate school-centered institution for research and education. In academic year 2020, it was further reorganized into a new graduate school system that incorporated research and education on informatics as the Department of Integrated Health Sciences with the aim of developing healthcare scientists who would become leaders in different medical-related fields in the coming information society. Then, under the fundamental objectives of Nagoya University, which are to produce world-leading intellectual achievements and to foster intellectually courageous individuals, we are engaged in research and educational activities that support students and allow them to grow toward their dreams as human resources who will contribute to society domestically and internationally in a wide range of fields, not just as medical professionals but as bearers of healthcare with information literacy and international competitiveness.

In Japan, medical informatics has developed remarkably in line with the informatization of the entire society, and waves of change are sweeping through daily health and medical services with the acceleration of the development of innovative, state-of-the-art medical technology. In order to adapt to these changes, our department and the graduate school strive to cooperate with hospitals, which are clinical sites, and to fulfill the need for research and education that incorporates informatics into traditional specialized fields. By participating in the Convolution of Informatics and Biomedical Sciences on Glocal Alliances (a doctoral program) and in the Training Program for Multidisciplinary Professionals to Lead Next-Generation Cancer Care (Tokai GanPro) (adopted by the Ministry of Education, Culture, Sports, Science and Technology in FY 2023), the university promotes world-class research. Through these initiatives, the university strives to develop human resources and the research studies that will contribute to the realization of next-generation information medicine, the building of innovative, state-of-the-art healthcare systems, and the development of next-generation preventive medicine (personalized prevention programs) to address the increasing number of patients with chronic diseases due to the aging of society. In a rapidly changing society with unprecedented global events, the university will promote initiatives for tackling a number of issues in the health and medical field, including the rapidly declining birth rate with an aging population and healthcare disparities among regions, by using next-generation health and medical research studies and the development of healthcare scientists as the driving force for solutions.