法 Extra classes or video lectures are unconsidered for those who are regularly absent for unavoidable reasons. Course Goals(投棄の目的) The enclanism of rejection in allo-transplantation Course Goals(投棄の目的) Allo-antigent thin funce of class carbonization Course Learning goals/*# Classes and function of human major hitbocompatibility complex (HLA) (classes and major and plantation therapy to avoid graft-rejection Course Learning goals/*# Classes and the basics in clinical immuno-regulation therapy to avoid graft-rejection Course Learning goals/*# Clevel (As/#) Course Outline(授柔の無對 Clevel (As/#) Course Outline(授柔の無對 Clevel (As/#) Course Outline(授柔の無對 Clevel (As/#) Discourse Course Outline(授柔の無對 Clevel (As/#) Discourse Outline(授柔の無對 Clevel (As/#) Discourse Outline(授柔の無對 Clevel (As/#) Discourse Outline(授柔の無對 Clevel (As/#) Discourse Outline(授柔の無) Discourse outline(Discourse and the classes and clinical immunology related to represent the plantation immology related to represent the plantation immology related represent or plantation immunology relate represent or plantation immunology relate r			emester/Ter 度・学期)	Faculty Offering Course(時間割所属・時間 割コード)	Eligible Student Year(開講年	Credits(単位 数)	Weekday and Period(曜 日・時限)		
Special Lecture Tokuron' on Transplantation immunology(E3) OSHUM Hirtoyaki, REA Resubi, Hibi Takou, Takasham Ken Coals with their ratio(学校成集とその語合) Coals with their ratio(学校成集とその語合) 1.Advanced expert knowledge, skill and research expability25% 2.Profound inter disciplinary knowledge25% 3.Global perspect and ability to take innoview endom25% 3.Global perspect to take intervent of the discussion is encourage Extra classes of video lectures are considered for those who are regularly absent for unavoidable resons. The grads of this facture are to understand the following: (1) The mechanism of rejection in allo stransplantation (3) Current status and function of human many takes (1) The mechanism of rejection in allo stransplantation (3) Current status and function of human many takes in the understanding of the mechanism of rejection in allo-transplantation medicine (2) Course Coarting (2) The three transplantation of the compatibility complex (HLA) (4) Basic immunology and clinical immuno-regulation theory to avoid graft-rejection (5) Course takes and function of human medicine (2) Cevel (C.X.#)) Course Course Outline(没意会) To treat the patients, transplantation of the calls, tissues, or organs obtained from donors is broadly carried theory theory are structural differences of proteins, [Index and super between different individual of the allogeneic done the transplantation immunology related to the methodology to avoid such registry. Index and super between different individual of the allogeneic done the respectantion of the screptical instandial of concells (1) transplantation individual (1) the allogeneic done the respectantion of the screptical instandial of the screptical instandial (2) Course Outline(???????? Course Outline(?????? To trans the structure in the sc	RDM7-026-79-1 2025		vhole year		1, 2, 3, 4	2	others		
Special Excluse Totation on Hangparticular Immunology(15) Taizou, Takashima Ken Goals with their ratio (学校長年をの登合) Index with their ratio (学校長年をの登合) Advanced expect Knowledge, skill and essarch capability			Co	ourse Title(Theme)(科目名(講義題目))			Instructor(s)(担当教員)		
Advanced expert knowledge still and research capability		Specia	al Lecture	e "Tokuron" on Transplantation immunology(E3)					
and ability to take initiative action ·····259 4.3ocial leadership drive drive drive drive drive are regularly absent for unavoidable reasons. The spoals of this lectures are to understand the followings: ·····27 4.1oc-antigens that induce a lot-reactivity (3) 1.1oc-antigens drive drived induced or teamplantation medicine (1) leader (3) 4.3ocial drive drived induced or teamplantation medicine (1) leadership and transplantation of a graph drive drived leadership (1) 1.1oc-antigens and transplantation of a graph drive drive leadership (1) 1.1oc ant the tangens of proteins, individual careactive immune response. We here the species, due to genetic polymorphism. Therefore, following the transplantation of a graph drive leader for a monor sis shored lifteent individual careactive immune response. We here the species drive to genetic polymorphism. Therefore, following the transplantation of a graph drive leader or here to species (2) and a species (2) and a drive				Goals with their ratio(学修成果とその割合)					
Teaching Method(没意の方 法) PowerPoint and (or OHP will be used in the lectures, and active participation in the discussion is encurage participation in the discussion is considered or througe who are regularly absent for unavoidable reasons. Course Goals(授業の目的) The goals of this lectures are to understand the followings: (2) Allo antigens that induce allo reactivity (3) Allo antigens that induce allo reactivity (4) Basic immunology and clinical immuno-regulation therapy to avoid graft-respection (2) Allo antigens that induce allo reactivity (4) Basic immunology and clinical immuno-regulation therapy to avoid graft-respection (2) Allo antigens that induce allo reactivity (4) Basic immunology and clinical immuno-regulation therapy and transplantation medicine (5) Course Learning goals(C#F Elef) Course Learning goals(C#F Elef) To treat the patients, transplantation of the cells, tissues, or organs obtained form donors is broadly carried however, there are structural differences of proteins. Indica, and sugges between different individuals of the species, due to genetic polymorphism. Therefore, following the transplantation of a graft dotained form an ongo such allogene cantigens, MPC are the structural differences of proteins allow cancer response. We lecture on the basic and clinical immunology related to the methodogy to avoid such rejection. In addition with provide the last stimuting recent advances in the research by the instructors. No.(III) Date(月日) Class Theme(投業テーマ) Brief Outline of Class(内容機構) 1 Hiroyuki Oshiumi eE-10, e1-0 Introduction to Adaptive Immunity 2 Hiroyuki Oshiumi eE-10, e1-0 Introduction to Adaptive Immunity	1.Advan and abil	ced expert l ity to take ir	knowledg nitiative a	ge, skill and research capability ·····25% 2.Profound inter-disciplinary knowledge ····25% 3.Global perspective action ····25% 4.Social leadership drive ····25%					
the cases or video lectures are considered for those who are regularly absent for unavoidable reasons. Events Course Goals (授業の目的) (月) (月) (日) (月)	Type of Class(授業の形態)			Lecture					
Course Coals(没意の目的) (1) The mechanism of rejection in allo-transplantation ⁻ Course Coals(没意の目的) (Allo-andges the induce allo-caectivity Thesis frommers and nutre direction of transplantation therapy to avoid graft-rejection (S) Thesis frommers and future direction of transplantation medicine Course Learning goals(学林 (A level (A X #)) To treat the patients, transplantation of the cells, tissues, or organs obtained from donors is broadly carried However, there are structural differences of proteins, lipids, and sugars between different individuals of the species, due to generate polymophism. Therefore, following the transplantation of a gait obtained from an Anong such allogeneic antigens, MHC are the strongest in situnulating allo-reactive immune response. We have there are the structural differences of proteins, lipids, and sugars between different individuals of the species, due to generate polymophism. Therefore, following the transplantation of a gait obtained from an Anong such allogeneic antigens, MHC are the strongest in situnulating allo-reactive immune response. We have there are the structural differences of proteins, lipids, and sugars between different individuals of the species, due to generate polymophism. Therefore, following the transplantation of a gait obtained from an Anong such allogeneic antigens, MHC are the strongest in situnulating allo-reactive immune response. We have the latest information on the issue of clinical transplantation and regenerative medicine, Me will be allowed the latest information on the issue of clinical transplantation and argent weight in the Anong such allogeneic antigens, MHC are the strongest in the instructors. No.(II) Date(月日) Class Theme(A \$				PowerPoint and/or OHP will be used in the lectures, and active participation in the discussion is encouraged. Extra classes or video lectures are considered for those who are regularly absent for unavoidable reasons.					
Course Learning goals(学校 目前) Understanding of the mechanism of rejection in allo-transplantation, the structures of major histocompatible complexes and the basics in clinical immuno-regulation therapy and transplantation medicine Course Outline(快速の概要) To treat the patients, transplantation of the cells, tissues, or organs obtained from donors is broadly carried however, there are structural differences of proteins, lip(4s, and sugars between different individuals of the species, due to genetic polymorphism. Therefore, following the transplantation of a graft obtained from an organise carried to the second of the cells, tissues, or organs obtained from donors is broadly carried however, there are structural differences of proteins, lip(4s, and sugars between different individuals of the species, due to genetic polymorphism. Therefore, following the transplantation of a graft obtained from an organise carried to the methodology to avoid such molecules and reject we genetic lecture on the basic and clinical immunology related to the methodology to avoid such molecules. And reject we genetic on the transplantation immunology at the level of cells, tissues, and organs, from the viewpoint of be basic and clinical medicine, including recent advances in the research by the instructors. No.(El) Date(月日) Class Theme(授業テーマ) Brief Outline of Class(Mp3R9b) 1 Hiroyuki Oshiumi eE-10, e1-0 Introduction to Inate Immunity 2 Hiroyuki Oshiumi eE-10, e1-0 Introduction to Inate Immunity 3 10/27 Mon 4th period, Atsushi Irie Polymorphism of MI-C and T cell- activation signelit (Mon 4th period, Atsushi Irie	Course Goals(授業の目的)			 (1) The mechanism of rejection in allo-transplantation (2) Allo-antigens that induce allo-reactivity (3) The structure and function of human major histocompatibility complex (HLA) (4) Basic immunology and clinical immuno-regulation therapy to avoid graft-rejection 					
However, thère are structural differences of proteins, lipids, and sugars between different individuals of the species, due to genetic polymorphism. Therefore, following the transplantation of a graft obtained from an allogeneic dinor, the recipient immunology related to the methodology to avoid such rejection. In addition there on the basic and clinical immunology related to the methodology to avoid such rejection. In addition there on the basic and clinical immunology related to the methodology to avoid such rejection. In addition there on the basic and clinical immunology at the level of cells, tissues, and organs, from the viewpoint of be basic and clinical medicine, including recent advances in the research by the instructors. No.(II) Date(月日) Class Theme(授業テーマ) Brief Outline of Class(内容構築) 1 Hiroyuki Oshiumi eE-J0, eJ-0 Introduction to Innate Immunity 3 10/27 Mon 4th period, Atsushi Irie Polymorphism of MIC and T cells activation signal 4 11/10 Mon 4th period, Atsushi Irie Major and minor histocompatibility antigens 5 Hiroyuki Oshiumi eE-J0, eJ-0 Anti-Tumor Immune Response 6 12/01 Mon 4th period, Atsushi Irie Major and minor histocompatibility antigens 7 12/08 Mon 4th period, Atsushi Irie Major and minor histocompatibility antigens 11 Unoyuki Oshiumi eE-J0, eJ-0 Humoral Factors regulating Immunity 12				Understanding of the mechanisms of rejection in allo-transplantation, the structures of major histocompatibility complexes and the basics in clinical immuno-regulation therapy and transplantation medicine					
No.(回) Date(月日) Class Theme(授業テーマ) Brief Outline of Class(内容概略) 1 Hiroyuki Oshiumi eE-J0, eI-0 Introduction to Innate Immunity 2 Hiroyuki Oshiumi eE-J0, eI-0 Introduction to Adaptive Immunity 3 10/27 Mon 4th period, Atsushi Irie Polymorphism of MHC and T cell- activation signals 4 11/10 Mon 4th period, Atsushi Irie Recognition of alloantigens by T cells 5 Hiroyuki Oshiumi eE-J0, eJ-0 Anti-Tumor Immune Response 6 12/01 Mon 4th period, Atsushi Irie Major and minor histocompatibility antigens 7 12/08 Mon 4th period, Atsushi Irie Immune response and dendritic cells 8 12/15 Mon 4th period, Katsushi Irie Cytokine and Chemokine 9 Hiroyuki Oshiumi eE-J0, eJ-0 Humoral Factors regulating Immunity 10 01/05 Mon 4th period, Ken Takashima Immune tolerance 11 Hiroyuki Oshiumi eE-J0, eJ-0 Immunosuppressant and transplantation 13 Ken Takashima eE-J0, eJ-0 Immunosuppressant and transplantation 14 Taizo Hibi eE-J0, eJ-0 Immunosuppressant and transplantation	Course Outline(授業の概要)			allogeneic donor, the recipient immune system is activated by such polymorphic molecules and reject the graft. Among such allogeneic antigens, MHC are the strongest in stimulating allo-reactive immune response. We will lecture on the basic and clinical immunology related to the methodology to avoid such rejection. In addition, we will provide the latest information on the issue of clinical transplantation and regenerative medicine. We will lecture on the transplantation immunology at the level of cells, tissues, and organs, from the viewpoint of both					
Date(FE) Date(FE) Date(FE) 1 Hiroyuki Oshiumi eE-J0, eJ-0 Introduction to Inate Immunity 2 Hiroyuki Oshiumi eE-J0, eJ-0 Introduction to Adaptive Immunity 3 10/27 Mon 4th period, Atsushi Irie Polymorphism of MHC and T cell- activation signal: 4 11/10 Mon 4th period, Atsushi Irie Recognition of alloantigens by T cells 5 Hiroyuki Oshiumi eE-J0, eJ-0 Anti-Tumor Immune Response 6 12/01 Mon 4th period, Atsushi Irie Major and minor histocompatibility antigens 7 12/08 Mon 4th period, Atsushi Irie Immune response and dendritic cells 8 12/15 Mon 4th period, Atsushi Irie Immune response and dendritic cells 9 Hiroyuki Oshiumi eE-J0, eJ-0 Humoral Factors regulating Immunity 10 01/05 Mon 4th period, Ken Takashima Immune tolerance 11 Hiroyuki Oshiumi eE-J0, eJ-0 Immune tesponses to grafts 12 Hiroyuki Oshiumi eE-J0, eJ-0 Immune senescence and Inflammaging 13 Ken Takashima eE-J0, eJ-0 Immunosuppressant and transplantation 14 Taizo Hibi eE-J0, eJ-0 Immunosuppressant and transplantation 14 Taizo Hibi eE-J0, eJ-0 Liver transplantation in Japan and the world 15 Taizo Hibi eE-J				Details for Individual Classes(各回の授業内容)					
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10 01/05 Mon 4th period, Ken Takashima Immune tolerance 11 Hiroyuki Oshiumi, eE-JO, eJ-O Host immune responses to grafts 12 Hiroyuki Oshiumi eE-JO, eJ-O Immune senescence and Inflammaging 13 Ken Takashima eE-JO, eJ-O Immunosuppressant and transplantation 14 Taizo Hibi eE-JO, eJ-O Transplantation in Japan and the world 15 Taizo Hibi eE-JO, eJ-O Liver transplant from living donor Estimated out-of-class study time Textbook(テキス Textbooks are not specified, and handouts will be distributed. * * The Immune System" by Peter Parham. Garland Publishing Inc. New York and London, 2004 * "Janeway' s Immunobiology Seventh Edition" by Kenneth Murphy, Paul Travers, Mark Walport. Garland Science, Taylor & Francis Group LLC. New York and Abingdon, 2008. * " A history of transplantation immunology" (Leslie Brent) Academic Press 1997 Enrollment Conditions(履修 条件) It is recommended for you to read a syllabus and indicated recommended readings in advance. Assessment Methods and Criteria(評価方法 · 基準) Achievement of the Objectives will be evaluated by active class participation and the reports of which the th will be specified after the lectures. Grading will be based on the student's understanding of the course subjective and brief examinations related on the basis of the reports and brief examinations related on the basis of the reports and brief examinations related on the basis of the reports and brief examinations relat	8			Mon 4th pe	riod, Atsushi Irie	Cytokine ar	ytokine and Chemokine		
11 Hiroyuki Oshiumi, eE-J0, eJ-0 Host immune responses to grafts 12 Hiroyuki Oshiumi eE-J0, eJ-0 Immune senescence and Inflammaging 13 Ken Takashima eE-J0, eJ-0 Immunosuppressant and transplantation 14 Taizo Hibi eE-J0, eJ-0 Transplantation in Japan and the world 15 Taizo Hibi eE-J0, eJ-0 Liver transplant from living donor Estimated out-of-class study time Textbooks are not specified, and handouts will be distributed. * * Textbooks are not specified, and handouts will be distributed. * * * * Reading List(参考文献) * * * Enrollment Conditions(隱修 条件) It is recommended for you to read a syllabus and indicated recommended readings in advance. Assessment Methods and Criteria(評価方法 · 基準) Achievement of the Objectives will be evaluated by active class participation and the reports of which the the will be specified after the lectures. Grading will be based on the basis of the reports and brief examinations relations relations related after the lectures. Grading will be based on the based on the average of the the based on the average of the the based on the average of the the average of the the based on the average of the the based on the average of the the based on the average of the the average of the the based on the average of the the average of the the based on the average of the the based on the average of the the based on the average of the	9			Hiroyuki Os	ni eE-J0, eJ-0 Humoral Factors regulating Immunity			munity	
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Language Used in Instruction(使用言語) Japanese and English				Japanese and English					
Textbook/Material Combination of Japanese and English	Textbook/Material			Combination of Japanese and English					

Language(教科書・資料の言 語)	Combination of Japanese and English
Course Based on Practical Work Experience(実務経験 を活かした授業)	Not applicable