

著書、学術論文等の名称	単著 共著 の別	発行又は発表 の年月	発行所、発表雑誌 等又は発表学会等 の名称	概 要
1 (著書) 体外循環シミュレーションシステム ECCSIM および ECCSIM-Lite	共著	2009年1月	メディカ出版, Circulation-Up-To-Da te, 4(1), p.22-32	概要:体外循環装置の操作に携わる医療従事者の安全 教育、養成校教育へ適用するため開発を継続してき た体外循環教育用シミュレータの概要と現状および将 来展望について述べた。(総ページ数:10頁) (二宮伸治, 戸梶めぐみ, 徳嶺朝子, 黒崎達也) 共同研究につき本人担当部分抽出不可能 (担当頁:担当頁特定不可能)
2 (筆頭論文) Virtual patient simulator for the perfusion resource management drill	共著	2009年12月	The Journal of extra-corporeal technology. 2009;41(4):206-212	概要: We designed a perfusion simulator system (ECCSIM) based on a hybrid of a simple hydraulic mock circulation loop linked to a computer simulation model. High-fidelity simulator systems with controllable difficulty levels and high physiological reproducibility are useful in constructing a perfusion resource management environment that enable basic training and periodic crisis management drills to be performed. (総ページ数:7頁) (Ninomiya S, Tokaji M, Tokumine A, Kurosaki T.) 共同研究につき本人担当部分抽出不可能 (担当頁:担当頁特定不可能)
3 (筆頭論文) Development of an educational simulator system, ECCSIM-Lite, for the acquisition of basic perfusion techniques and evaluation	共著	2007年12月	Journal of Artificial Organs, 2007; Vol.10, No.4, pp.201-205	概要: A simulator system, ECCSIM-Lite system is expected to be useful for perfusion training, since quantitative information about the trainee's performance is recorded and it is possible to use the data for assessment and comparison. (総ページ数:5 頁) (Ninomiya S, Tokumine A, Yasuda T, Tomizawa Y.) 共同研究につき本人担当部分抽出不可能 (担当頁:担当頁特定不可能)
4 (学術論文) Evaluation of basic perfusion techniques by using an educational simulator system, ECCSIM-Lite	共著	2010年6月	The Journal of extra-corporeal technology. 2010; 42 (2), pp.139-144	概要: ECCSIM-Lite was used during repeated sessions of undergraduate students (n = 12) using a simple training scenario. The use of ECCSIM-Lite simulations, together with evaluation of task accomplishment over repeated training sessions, is an effective method of basic skill training for perfusionists. (総ページ数:6頁) (Tokumine A, Ninomiya S, Tokaji M, Kurosaki T, Tomizawa Y.) 共同研究につき本人担当部分抽出不可能 (担当頁:担当頁特定不可能)
5 (学術論文) Quantitative evaluation of hand cranking a roller pump in a crisis management drill.	共著	2008年10月	Journal of Artificial Organs. 2008; 11(3): 117-122	概要: The performance of hand cranking a roller pump was quantitatively assessed by an objective method using the ECCSIM-Lite. Results from drills showed that it is beneficial for perfusionists and patients to include hand-cranking practice in periodic extracorporeal circulation crisis management drills. (総ページ数:6頁)(Tomizawa Y, Tokumine A, Ninomiya S, Momose N, Matayoshi T.) 共同研究につき本人担当部分抽出不可能 (担当頁:担当頁特定不可能)
6 (学術論文) Analysis of flow patterns in a ventricular assist device: a comparative study of particle image velocimetry and computational fluid dynamics.	共著	2009年4月	Artificial Organs. 2009; 33(4); 352-359	概要: We devised a center flow-type pump by putting a small projection on the center of the housing. CFD was used for flow simulation. PIV was also used to verify the reliability of the CFD method. The results of the PIV and CFD analyses were comparable and the placement of a projection on the housing was most effective in rectifying the flow field. (総ページ数:8頁) (Sato K, Orihashi K, Kurosaki T, Tokumine A, Fukunaga S, Ninomiya S, Sueda T.) 共同研究につき本人担当部分抽出不可能 (担当頁:担当頁特定不可能)