

CURRICULUM VITAE



BUSINESS ADDRESS

University Hospital Basel
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PERSONALIA Mirjam Christ-Crain

Date of birth: 1974
Citizenship: Basel-Stadt, Switzerland

Research Highlights

- 1st -highest ranked expert in Diabetes insipidus and 6th-highest ranked expert in hyponatremia worldwide based on articles published since 2011 (<https://expertscape.com/ex/diabetes+insipidus>); <https://expertscape.com/ex/hyponatremia>
- H-Index (google scholar 26.10.2022): 79
- OrCID: <https://orcid.org/0000-0002-6336-0965>

10 best publications

No.		Impact Factor	Journal Ranking
10	Refardt J, Imber C, Nobbenhuis R, Sailer C, Haslbauer A, Monnerat S, Bathelt C, Vogt D, Berres M, Winzeler B, Bridenbough S, Christ-Crain M . Treatment Effect of the SGLT2-inhibitor Empagliflozin on chronic SIAD –results of a double-blind, randomized, crossover, placebo-controlled trial. <i>J Am Soc Nephrol</i> . 2022 Nov 17:ASN.2022050623. doi: 10.1681/ASN.2022050623	14.98	5/90
9	Atila C, Loughrey PM, Garrahy A, Winzeler B, Refardt J, Gildroy P, Hamza M, Pal A, Verbalis JG, Thompson CJ, Hemkens LG, Hunter SJ, Sherlock M, Levy MJ, Karavitaki N, Newell-Price J, Wass JA, Christ-Crain M . Central diabetes insipidus from a patients' perspective: management, psychological co-morbidities, and re-naming of the condition - results from an international web-based survey. <i>Lancet Diabetes Endocrinol</i> . 2022 Oct;10(10):700-709. doi: 10.1016/S2213-8587(22)00219-4. Epub 2022 Aug 22.	44.86	2/146
8	Winzeler B, Sailer C, Coynel D, Zanchi D, Vogt D, Urwyler S, Refardt J, Christ-Crain M . A randomized controlled trial of the GLP-1 receptor agonist dulaglutide in primary polydipsia. <i>J Clin Invest</i> 2021 Oct 15;131(20) e151800. doi: 10.1172/JCI151800	19.47	2/139
7	Refardt J, Imber C, Sailer C, Jeanloz N, Potasso L, Kutz A, Widmer A, Urwyler S, Ebrahim F, Vogt DR, Winzeler B, and Christ-Crain M . Empagliflozin increases plasma sodium levels in patients with the syndrome of inappropriate antidiuresis –a randomized, double-blind, placebo-controlled study. <i>J Am Soc Nephrol</i> 2020 Mar;31(3):615-624	14.98	5/90
6	Winzeler B, Nicole Cesana-Nigro N, Refardt J, Vogt D, Imber C,	202.73	1/172

	Morin M, Popovic M, Steinmetz M, Sailer C, Szinnai G, Chifu I, Fassnacht M, and Christ-Crain M. Arginine-Stimulated Copeptin Measurements - A new Test for Diabetes Insipidus: A prospective diagnostic Study. <i>Lancet.</i> 2019 Jul 11. pii: S0140-6736(19)31255-3. doi: 10.1016/S0140-6736(19)31255-3.		
5	Christ-Crain M, Bichet DG, Fenske WK, Goldman MB, Rittig S, Verbalis JG, Verkman AS. Diabetes insipidus. <i>Nat Rev Dis Primers.</i> 2019 Aug 8;5(1):54. doi: 10.1038/s41572-019-0103-2.	65.03	5/172
4	Fenske W*, Refardt J*, Chifu I, Schnyder I, Winzeler B, Drummond J, Ribeiro-Oliveira Jr A, Drescher T, Bilz S, Vogt DR, Kroiss M, Christ E, Henzen C, Fischli S, Tönjes A, Mueller B, Schopohl J, Flitsch J, Brabant G, Fassnacht M, Christ-Crain M. A Copeptin-based Approach in the Differential Diagnosis of Diabetes Insipidus. <i>N Engl J Med.</i> 2018 Aug 2;379(5):428-439. doi: 10.1056/NEJMoa1803760 PMID: 30067922	176.08	2/172
3	Christ-Crain M, Fenske W. Copeptin in the diagnosis of vasopressin-dependent disorders of fluid homeostasis. <i>Nat Rev Endocrinol.</i> 2016 Mar ;12(3):168-76.	47.56	1/146
2	Blum CA, Nigro N, Briel M, Schuetz P, Ullmer E, Suter-Widmer I, Winzeler B, Bingisser R, Elsaesser H, Drozdov D, Arici B, Urwyler SA, Refardt J, Tarr P, Wirz S, Thomann R, Baumgartner C, Duplain H, Burki D, Zimmerli W, Rodondi N, Mueller B, Christ-Crain M. Adjunct prednisone therapy for patients with community-acquired pneumonia: a multicentre, double-blind, randomised, placebo-controlled trial. <i>Lancet.</i> 2015 Apr 18;385(9977):1511-8	202.73	1/172
1	Christ-Crain M., Jaccard D., Bingisser R., Gencay M, Tamm M. and Müller B. Effect of procalcitonin-guided treatment on antibiotic use and outcome in lower respiratory tract infections: cluster-randomised, single-blinded intervention trial. <i>Lancet</i> 2004 ; 363: 600-07, published online Feb 10, 2004, 'fasttrack' publication Talking points: Antibiotics: a breath of fresh air? <i>Lancet</i> 2004; 363:579 Correspondence: Christ-Crain M., Jaccard-Stolz D., Tamm M., Müller B. Procalcitonin-guided antibiotic therapy in heart failure. <i>Lancet</i> 2004; 363:1555-6.	202.73	1/172

Education

- 2008 PhD thesis, University of London
- 2007 Habilitation University of Basel
- 2006 Acceptance of FMH (specialty exam) Endocrinology
- 2000 MD thesis
- Nov.1999 Swiss Federal Medical Examination
- 1996 – 1997 Visiting semesters in Vienna, Austria
- 1993 – 1999 Medical school, University of Basel, Switzerland

Employment History

- 2014 - present Head of Department of Clinical Research, full professorship for Endocrinology, University of Basel, Switzerland
- 2013 - present Deputy Chief, Div. of Endocrinology, Diabetes and Metabolism, University Hospital Basel, Switzerland
- 2009-2013 SNF-Professorship
- 2009-2013 Consultant, Div of Endocrinology, University Hospital Basel, Switzerland
- 2007-2009 Senior physician, Div of Endocrinology, University Hospital Basel, Switzerland

- 2005-2007 Postdoctoral Research fellow, PhD student, Lab of molecular Endocrinology, St.Bartholomews Hospital, London
- 2004-2005 Resident, Div. of Endocrinology, Diabetes and Clinical Nutrition, Dept. of Internal Medicine, University Hospitals, Basel, Switzerland
- 2003-2004 Resident Emergency Division, University Hospital Basel, Switzerland
- 2002-2003 50% Research fellow, Div. of Endocrinology, and 50% Resident, Clinic of Internal Medicine, University Hospital, Basel, Switzerland
- 2001-2002 Research fellow, Div. of Endocrinology, Clinic of Internal Medicine, University Hospital Basel, Switzerland
- 2000-2001 Resident, Internal Medicine, Gemeindespital Riehen

Approved Research Projects (SNF)

<i>Funding Body</i>	<i>Year</i>	<i>Amount CHF</i>	<i>Project</i>
Swiss National Science Foundation	01.11.2023-31.10.2028	2'414'257.00	Oxytocin substitution therapy in patients with central diabetes insipidus: a double-blind randomized-controlled trial the OxyTUTION trial
Swiss National Science Foundation	01.10.2022-30.09.2026	1'018.261.00	Effects of the SGLT2 inhibitor empagliflozin in patients with euvolemic and hypervolemic hyponatremia – a multicentric randomized double-blind placebo-controlled trial - the EMPOWER Study
Swiss National Science Foundation	01.11.2020 – 30.04.2025	2'979'892.00	IICT grant: Targeted correction of plasma sodium levels in hospitalized patients with hyponatremia: a randomized, controlled, parallel-group trial with blinded outcome-assessment - The Hyponatremia Intervention Trial (HIT trial)
Swiss National Science Foundation	01.10.2018 – 30.09.2022	904'000.00	Project grant: Use of Copeptin Measurement after Arginine Stimulation for the Differential Diagnosis of Diabetes Insipidus
Swiss National Science Foundation	01.10.2015 – 30.09.2018	678'000.00	Project grant: Improving Diagnosis and Treatment of Polyuria Polydipsia syndrome
Swiss National Science Foundation	01.02.2014 – 31.01.2016	415'302.00	SNF Research professorship: Corticosteroid treatment for Community-Acquired Pneumonia - A randomized, double-blind study- The STEP trial
Swiss National Science Foundation	01.10.2009 – 31.01.2014	1'564'933.00	SNF Research Professorship for project: Corticosteroid treatment for Community-Acquired Pneumonia - A randomized, double-blind study- The STEP trial

Supervision of young researchers

Supervision of MD thesis: approximately 2-3 per year

Supervision of MD PhD students: Cihan Atila(2019-2023), Sophie Monnerat (2019-2023), Julia Beck (2020-2024), Milica Popovic (2015-2018), Clara Sailer (2014-2017), Laura Potasso (2017-2020)

Supervision of postdoctoral fellows: Bettina Winzeler, Julie Refardt, Matthias Betz, Svetlana Beglinger, Claudine Blum, Gabriela Bucklar, Brida Caviezel, Fahim Ebrahimi, Susan Felder, Lara Gut, Cornelia Imber, Stefanie Meyer, Nicole Nigro, Ingeborg Schnyder, Eleonora Seelig, Katharina Timper, Sandrine Urwyler, Andrea Widmer

Supervision of Habilitations: Claudine Blum (Habilitation 2022), Katharina Timper (Habilitation 2022), Bettina Winzeler (Habilitation 2023), Julie Refardt (Habilitation 2023), Sandrine Urwyler (Habilitation 2023)

Teaching experience

- Examiner of FMH exams in endocrinology/diabetology, (since 2007)
- Regular advisory visits for assistant doctors Internal Medicine (since 2007)
- Training courses for assistant and senior doctors in endocrinology and diabetology (since 2007)
- Courses in functional insulin therapy (FIT) for Diabetes mellitus Type 1 (since 2005)
- Regular group lecturing for medical students 3rd, 4th, and 6th year (since 2004)
- Lecturer for medical students in endocrinology 3rd, 4th and 6th year (since 2002)

Best Teacher award in 3rd and 4th year of medical school in 2017, 2018, 2019, 2020, 2021, 2022

Nominated for Best Teaching Award of University of Basel (all faculties) in 2021 and 2022

Membership in Panels, Scientific and Professional Organizations, Expert Activities

- Chair of the Education Committee of the European Society of Endocrinology, 2020-
- Member of the Council of the Swiss National Science Foundation, 2020-
- Schweizerischer Wissenschafts- & Innovationsrat (SWIR) 2016-2019
- Schweizerische Akademie der Med. Wissenschaften (SAMW) single membership 2015-
- Member of the PhD Commission University of Basel (2014-2020)
- Member of the council (Vorstand) of the Swiss Society of Endocrinology and Diabetes (SGED) 2009-2019
- International guidelines group "Corticosteroids in critical illness" (Head: D. Annane, S. Pastores)
- European Endocrine Society 2006-
- American Endocrine Society 2003-
- Swiss Society of Endocrinology & Diabetology (SGED) 2002-
- Swiss Association for Medicine (FMH) 2000-

Editorial and Journal Review activities

- 2021 - Associate Editor of the *European Journal of Endocrinology*
- 2020 - Member of the editorial Board of the *Journal of Endocrinology and Metabolism*
- 2020 - Guest Editor of *Best practice in Endocrinology*
- Ad hoc reviewer of several Journals

Grant review activities

- 2020 - Member of the Research Council of the Swiss National Science Foundation

Conference Organization

- Member of the POC European Neuroendocrine Association meeting, Sevilla September 2024
- Member of the POC International Society of Endocrinology (ISE) Buenos Aires, October 2020
- Main organizer of the Swiss Annual Endocrinology Congress in Bern, 2014-2019

Most Important Awards and Honors (selection)

- Taft Lecturer at the Endocrine Society of Australia's Annual Scientific Meeting, November 2021
- Trust visiting professor, British Endocrine Society, Nov 2022, postponed (COVID) to June 2022
- Award of the European Society of Endocrinology for young investigators (below 45 years of age) 2019, Annual European Endocrine Conference in Lyon, May 2019
- Bebbi Award 2012 of the city of Basel
- National Latsis Award 2009
- SULM (Swiss Union for Laboratory Medicine) presidential Award 2008
- Amerbach Award 2007 for best habilitation of medical faculty (University of Basel)
- Servier Award Clinical Endocrinology 2007
- Swiss Society of Internal Medicine (SGIM) Award 2007
- Viollier Award 2005
- Pfizer Award 2005 for best clinical research paper in infectious diseases
- Matura-Preis (Bachelor's Award) Humanistisches Gymnasium Basel 1993

Relevant scientific achievements

In my initial work (2001-2009), I explored the hormone procalcitonin. I could show that the concentration of this hormone is increased in the circulation during bacterial infection, but remained low in the presence of a viral infection. The differentiation between bacterial and viral respiratory tract infections has important clinical implications, allowing reducing the use of antibiotics (*Lancet 2004; AJRCCM 2006; JAMA 2009*).

Since 2009, I have made pioneering contribution in the development of new diagnostic and therapeutic options in the difficult area of vasopressin-dependent fluid disorders, i.e. Diabetes insipidus and the syndrome of inappropriate antidiuresis (SIAD).

In the field of Diabetes insipidus, I directed several multicenter international studies to evaluate the use of copeptin which mirrors the activity of vasopressin. I showed that copeptin improves differential diagnosis of Diabetes insipidus, be it in patients with polyuria polydipsia syndrome (*JCEM 2015*) or in patients undergoing pituitary surgery (*JCEM 2015*). I conducted the largest prospective study in patients with Diabetes insipidus including >150 patients in 11 centers worldwide, comparing the water deprivation test with osmotically-stimulated copeptin levels. I showed that the diagnostic accuracy for the water deprivation test versus osmotically-stimulated copeptin to discriminate primary polydipsia from Diabetes insipidus was 76.6% versus 96.5% (*New England Journal of Medicine 2018*). In another large study, I showed that arginine stimulates copeptin and that this novel test had a similar accuracy than the hypertonic-saline test to differentiate Diabetes insipidus from primary polydipsia, but with a better tolerability (*Lancet 2019*). Based on these data measurement of copeptin has been recommended to become the new diagnostic reference-standard for patients with Diabetes insipidus.

Concerning treatment, I recently showed in a randomized, double-blind, placebo-controlled trial that GLP-1-receptor-agonists control thirst and compulsive drinking behavior in primary polydipsia indicating a novel treatment option in patients where currently no medical treatment options exist (*JCI 2021*). In a recent paper, I showed that patients with Diabetes insipidus suffer from many psychological comorbidities and have reduced quality of life (*Lancet E & D 2022*). Based on this finding, I now investigate whether patients with Diabetes insipidus have Oxytocin deficiency, and whether treatment with Oxytocin improves their quality of life and psychological comorbidities. A multicenter placebo-controlled randomized trial is in preparation.

Another important area in fluid disorders is hyponatremia and the syndrome of inappropriate antidiuresis (SIAD) in particular where improvements in diagnosis and treatment are needed. I performed several studies evaluating new diagnostic markers for hyponatremia. Concerning treatment, I showed in two randomized placebo-controlled trials that SGLT-2 inhibitors are a novel treatment option in patients with SIAD increasing osmotic diuresis and consecutively sodium levels (*JASN 2020*). Most recently, I received a large grant to compare the effect of standard care versus intensive correction of hyponatremia on mortality in hospitalized hyponatremic patients.

Oral talks at international meetings

Approx. 15-20 invitations per year

2023 (selection)

- Up to Date Delle Malattie Ipotalamo-Ipofisarie, Bologna April 14th - 15th, 2023 “Diabetes insipidus: an update”
- 51st Annual Meeting of the Israel Endocrine Society, May 22nd - 23rd, 2023 “New diagnostic and therapeutic options in patients with AVP-deficiency (central diabetes insipidus)”
- Pituitary 2023, Chicago, USA, June 12th – 14th, 2023 Opening Plenary Lecture “Vasopressin deficiency: a new look at a classical disease”
- Endo 2023, Chicago, USA, June 15th – 18th, 2023 Symposium talk “Do patients with diabetes insipidus have oxytocin deficiency?”

2022 (selection)

- Grand round Mayo Clinic Rochester Minnesota, about “new diagnostic and therapeutic options in vasopressin-dependent fluid disorders (virtual lecture, planned 27th of April 2022)
Plenary lecture 49th Panhellenic Congress on Endocrinology, Metabolism and Diabetes, Athens, on “The Management of Diabetes Insipidus and Hyponatraemia in 2022”, 29th of April 2022

- Grand round Mc Gill University, Montreal, Canada, about "New diagnostic and therapeutic options in vasopressin dependent fluid disorders, planned virtually on 12th of May, 2022 Symposium talk at the European Renal Association Meeting, about "Hyponatremia, new diagnostic and therapeutic developments", Paris, 19th of May 2022
- Talks and grand rounds during the visiting professorship stay in UK, from 20th of June to 26th of June, about different topics of Diabetes insipidus and hyponatremia, in Edinburgh (20th of June), Cambridge (22nd of June), Oxford (23rd of June) and Birmingham (24th of June)
- Symposium talk about New diagnostic and therapeutic options in Diabetes insipidus, ENEA Lyon 7-9th of September 2022
- Plenary lecture ESPE Rome about "Copeptin in vasopressin-dependent fluid disorders", September 14th to 15th, 2022
- Symposium talk about "Diabetes insipidus", Endobridge 2022, Antalya, 20th-23rd of October 2022
- Endocrinology Grandround Brigham and Women's hospital, Harvard Medical School, 9th of November 2022

2021 (selection)

- Lecture at meeting of the Pituitary Society about "a new decade for Diabetes insipidus and hyponatremia", 12th of February 2021 (held virtually)
Plenary lecture at German Pediatric Endocrine Society about "New tests in the differential diagnosis of Diabetes insipidus", 5th of March 2021 (held virtually)
- American Spring Kidney meeting, symposium talk about "copeptin in the diagnosis of Diabetes insipidus", 10th of April 2021 (held virtually)
Grand round Sao Paulo University Endocrine Department about "a new decade for Diabetes insipidus and hyponatremia, 24th of June, 2021 (held virtually)
- Grand round Rochester University about "New diagnostic and treatment options in Vasopressin-dependent fluid disorders
Pediatric Endocrine Dinner, Queensland (held virtually): two talks about a) Diabetes insipidus, b) hyponatremia
- EUROPIT meeting, talk about "diagnosis and management of Diabetes insipidus", November 21-24th, 2021 Annecy, France
ESA Clinical Weekend, Melbourne (held virtually), talk about "diagnosis and management of Diabetes insipidus", November 20th, 2021
- Endocrine Meeting of the Australian and New Zealand Society, Christchurch, November 2021.
Plenary lecture (Taft lecture), held virtually due to COVID-19 pandemic.
St.Andrews Day symposium, Edinburgh, 25th of November 2021: Symposium talk about "hyponatremia"

2020 (selection)

- Annual Society of Norwegian Endocrinology, 5.3.2020, Lillehammer, Norway. Plenary lecture: Title of talk: Update on diagnosis and differential diagnosis of diabetes insipidus
- Endocrine Society, San Francisco, 28-31 March 2020. Plenary lecture: The year in pituitary (held virtually due to COVID-19 pandemic).
- Annual Society of Spanish Endocrinology, October 2020 (held virtually): Plenary lecture: Copeptin in the diagnosis of Diabetes insipidus
- Annual Society of French Endocrinology, October 2020 (held virtually): Plenary lecture: New diagnostic and therapeutic options in vasopressin-dependent fluid disorders
- Endocrine Meeting of the Australian and New Zealand Society, Christchurch, November 2020. Plenary lecture (Taft lecture), postponed to 2021 due to COVID-19 pandemic.

- Trust visiting professor lecture, British Society of Endocrinology, held virtually November 2020

2019 (selection)

- Annual Society for Endocrinology, 11.11.2019, Brighton UK. Symposium talk: Title of talk: Copeptin - a new player in the diagnosis of salt and water balance
- Imperial Pituitary Masterclass Meeting, 16.09.2019, Royal College of Physicians, London UK. Symposium talk: Title of talk: New approaches in the differential diagnosis of DI
- Sodium and Water Metabolism, from Bench to Bedside, 27.08.2019, Aarhus Denmark. Symposium talk: Title of talk: Diabetes Insipidus and hypernatremia: an updated diagnostic approach.
- Care for Pituitary Adenoma Workshop Leiden, NL 06.-07.06.2019. Plenary lecture: Title of talk: Game changing publication: DI
- 21st European Congress of Endocrinology, 18.-21.5.2019, Lyon, France. Plenary lecture: Title of talk: New Approaches in the differential diagnosis of Diabetes insipidus
- World Congress on Neurohypophysial Hormones WCNH, Tel Aviv, Israel 7.-11.04.2019. Plenary lecture: Title of talk: Copeptin in the diagnosis of diabetes insipidus and SIADH
- 9th Acromegaly Expert Meeting, Zagreb, Croatia 14. -16.02.2019. Plenary lecture: Title of talk: The posterior pituitary shouldn't be forgotten, but how do we assess its function?
- Swedish Endocrine Meeting, Umea, 31.01.2019. Plenary lecture: Title of talk: New Approaches in the differential diagnosis of Diabetes insipidus

Publication List

H-Index (google scholar 26.10.2022): 79

CID: <https://orcid.org/0000-0002-6336-0965>

Original articles in peer-reviewed journals as first or last author

No.	Authors / Title / Journal	Impact Factor	Journal Ranking
129	Atila C, Holze F, Murugesu R, Rommers N, Hutter N, Varghese N, Sailer CO, Eckert A, Heinrichs M, Liechti ME, Christ-Crain M. Oxytocin in response to MDMA provocation test in patients with arginine vasopressin deficiency (central diabetes insipidus): a single-centre, case-control study with nested, randomised, double-blind, placebo-controlled crossover trial. <i>Lancet Diabetes Endocrinol.</i> 2023 May 12:S2213-8587(23)00120-1. doi: 10.1016/S2213-8587(23)00120-1	44.86	2/146
128	Monnerat S, Refardt J, Potasso L, Meier C, Christ-Crain M. An Increase in Plasma Sodium Levels Is Associated With an Increase in Osteoblast Function in Chronic SIAD. <i>J Clin Endocrinol Metab.</i> 2023 Apr 25:dgad238. doi: 10.1210/clinem/dgad238. Online ahead of print.	6.13	29/180
127	Potasso L, Monnerat S, Refardt J, Lindner G, Burst V, Winzeler B, Christ-Crain M. Chloride and Potassium Assessment are a helpful tool for Differential Diagnosis of Thiazide Associated Hyponatremia. <i>J Clin Endocrinol Metab.</i> 2023 Mar 11:dgad133. doi: 10.1210/clinem/dgad133. Online ahead of print	6.13	29/180
126	Monnerat S, Atila C, Refardt J, Christ-Crain M. Prevalence of Admission Hyponatremia in Patients With Diabetes Treated With and Without an SGLT2 inhibitor. <i>J Endocr Soc.</i> 2023 Jan 24;7(4):bvad011. doi: 10.1210/jendso/bvad011. eCollection 2023 Feb 9.	3.49	74/180
125	Sailer CO, Gaisl O, Beglinger S, Frech-Dörfler M, Sommer V, Lüthy MH, Christ-Crain M. Copeptin improves prediction of treatment response in children with monosymptomatic nocturnal enuresis. <i>Eur J Endocrinol.</i> 2023 Mar 2;188(3):lvad022. doi: 10.1093/ejendo/lvad022.	6.55	27/146
124	Refardt J, Imber C, Nobbenhuis R, Sailer C, Haslbauer A, Monnerat S, Bathelt C, Vogt D, Berres M, Winzeler B, Bridenbough S, Christ-Crain M. Treatment Effect of the SGLT2-inhibitor Empagliflozin on chronic SIAD –results of a double-blind, randomized, crossover, placebo-controlled trial. <i>J Am Soc Nephrol.</i> 2022 Nov 17:ASN.2022050623. doi: 10.1681/ASN.2022050623	14.98	5/90
123	Atila C, Loughrey PM, Garrahy A, Winzeler B, Refardt J, Gildroy P, Hamza M, Pal A, Verbalis JG, Thompson CJ, Hemkens LG, Hunter SJ, Sherlock M, Levy MJ, Karavitaki N, Newell-Price J, Wass JA, Christ-Crain M. Central diabetes insipidus from a patients' perspective: management, psychological co-morbidities, and re-naming of the condition - results from an international web-based survey. <i>Lancet Diabetes Endocrinol.</i> 2022 Oct;10(10):700-709. doi: 10.1016/S2213-8587(22)00219-4. Epub 2022 Aug 22.	44.86	2/146
122	Atila C, Monnerat S, Urwyler SA, Refardt J, Winzeler B, Christ-Crain M. The effect of glucose dynamics on plasma copeptin levels upon glucagon, arginine, and macimorelin stimulation in healthy adults : Data from: Glucacop, Macicop, and CARGO study. <i>Pituitary.</i> 2022 Aug;25(4):636-644. doi: 10.1007/s11102-022-01240-0. Epub 2022 Jun 20.	3.59	89/146
121	Atila C, Gaisl O, Vogt DR, Werlen L, Szinnai G, Christ-Crain M. Glucagon-stimulated copeptin measurements in the differential diagnosis of diabetes insipidus: a double-blind, randomized, placebo-controlled study. <i>Eur J Endocrinol.</i> 2022 May 12;187(1):65-74. doi: 10.1530/EJE-22-0033.	6.56	27/146

120	Christ-Crain M , Refardt J, Winzeler B. Approach to the patient: "Utility of the Copeptin Assay". <i>J Clin Endocrinol Metab.</i> 2022 Feb 8:dgac070. doi: 10.1210/clinem/dgac070. Online ahead of print.	5.96	28/146
119	Potasso L, Refardt J, Meier C, Christ-Crain M . Effect of Hyponatremia Normalization on Osteoblast Function in Patients with SIAD. <i>Eur J Endocrinol.</i> 2021 Oct 1: EJE-21-0604.R1. doi: 10.1530/EJE-21-0604. Online ahead of print.	6.66	20/146
118	Refardt J, Pelouto A, Potasso L, Hoorn EJ, Christ-Crain M . Hyponatremia Intervention Trial (HIT): Study Protocol of a Randomized, Controlled, Parallel-Group Trial With Blinded Outcome Assessment. <i>Front Med (Lausanne).</i> 2021 Sep 6;8:729545. doi: 10.3389/fmed.2021.729545. eCollection 2021.	5.09	28/167
117	Potasso L, Refardt J, De Marchis GM, Wiencierz A, Wright PR, Wagner B, Dittrich T, Polymeris AA, Gensicke H, Bonati LH, Christ-Crain M . Impact of Sodium Levels on Functional Outcomes in Patients with Stroke - A Swiss Stroke Registry Analysis. <i>J Clin Endocrinol Metab.</i> 2021 Sep 4:dgab 650. doi: 10.1210/clinem/dgab650. Online ahead of print.	5.96	28/146
116	Winzeler B, Sailer CO, Coynel D, Zanchi D, Vogt DR, Urwyler SA, Refardt J, Christ-Crain M . A randomized controlled trial of GLP-1 receptor agonist dulaglutide in primary polydipsia. <i>J Clin Invest.</i> 2021 Sep 2:151800. doi: 10.1172/JCI151800.	14.81	3/140
115	Nobbenhuis R, Refardt J, Vogt D, Sailer CO, Winzeler B, Christ-Crain M . Can treatment response to SGLT2-inhibitors in syndrome of inappropriate antidiuresis be predicted by copeptin, natriuretic peptides and inflammatory markers? <i>Biomarkers.</i> 2021 Aug 30:1-9. doi: 10.1080/1354750X.2021.1970808.	2.66	96/165
114	Christ-Crain M , Hoorn EJ, Sherlock M, Thompson CJ, Wass J. ENDOCRINOLOGY IN THE TIME OF COVID-19-2021 UPDATES: The management of diabetes insipidus and hyponatraemia. <i>Eur J Endocrinol.</i> 2021 Aug 27;185(4): G35-G42. doi: 10.1530/EJE-21-0596.	6.66	20/146
113	Sailer CO, Winzeler B, Urwyler SA, Schnyder I, Refardt J, Eckert A, Varghese N, Fassnacht M, Chifu I, Lawson EA, Verbalis JG, Fenske W, Christ-Crain M . Oxytocin levels in response to pituitary provocation tests in healthy volunteers. <i>Eur J Endocrinol.</i> 2021 Jun 1:EJE-21-0346.R1. doi: 10.1530/EJE-21-0346.	6.66	20/146
112	Sailer CO, Refardt J, Blum CA, Schnyder I, Molina-Tijeras JA, Fenske W, Christ-Crain M . Validity of different copeptin assays in the differential diagnosis of the polyuria-polydipsia syndrome. <i>Science Rep.</i> 2021 May 12;11(1):10104. doi: 10.1038/s41598-021-89505-9.	4.38	17/72
111	Ebrahimi F, Urwyler SA, Betz MJ, Christ ER, Schuetz P, Mueller B, Donath MY, Christ-Crain M . Effects of interleukin-1 antagonism and corticosteroids on fibroblast growth factor-21 in patients with metabolic syndrome. <i>Sci Rep.</i> 2021 Apr 12;11(1):7911. doi: 10.1038/s41598-021-87207-w.	4.38	17/72
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Reviews

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4	Christ-Crain M. , Schild U., Müller B. Sinnvolle Anwendung endokrinologischer Tests, <i>Swiss Medical Forum</i> 2004; 4:1113-1119		
3	Meier C., Christ-Crain M. , Keller U., Staub J.J. Mental changes in hypo- and hyperthyroidism. <i>Dtsch. Med. Wochenschrift</i> 2002; 24; 127 (21): 1145-50.		151/167
2	Christ-Crain M. , Gasser T., Staub J.J., Meier C. Klimakterium virile - Mythos oder Realität? Risiken einer Testosteronsubstitution beim alternden Mann und Therapieempfehlungen. <i>Swiss Medical Forum</i> 2002; 38-41		
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Correspondence, Editorials and Case Reports

No.		Impact Factor	Journal Ranking
10	Changing the name of diabetes insipidus: a position statement of The Working Group for Renaming Diabetes Insipidus. Working Group for Renaming Diabetes Insipidus, Arima H, Cheetham T, Christ-Crain M. , Cooper D, Gurnell M, Drummond JB, Levy M, McCormack AI, Verbalis J, Newell-Price J, Wass JAH. <i>Eur J Endocrinol.</i> 2022 Oct 14;187(5):P1-P3. doi: 10.1530/EJE-22-0751. Print 2022 Nov 1. <i>Co-published in Endocr J, Endocr Connect, Arch Endocrinol Metab, Horm Res Paediatr, Clin Endocrinol (Oxf.)</i>	6.55	27/146
9	Walter MA., Christ-Crain M. , Müller B. Clinical practice for antithyroid drugs and radioiodine (letter). <i>New Engl J Med</i> 2008, 359: 1407	50.01	1/167
8	Christ-Crain M. , Müller B. Calcitonin peptides – the mediators in sepsis or just another fairy tale? (Editorial) <i>Crit Care Med</i> 2008; 36: 1684-7	6.59	6/36
7	Katan M, Müller B, Christ-Crain M. Copeptin: a new and promising diagnostic and prognostic marker (editorial). <i>Crit Care</i> 2008, 12: 117	4.55	5/36
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Book chapters

No.	
9	Christ-Crain M. <i>Melmed: Williams Textbook of Endocrinology (Diabetes insipidus, hyponatremia, Oxytocin)</i> – in preparation
8	Christ-Crain M. <i>Pituitary Tumors: A Comprehensive and Interdisciplinary Approach, chapter: Diabetes insipidus, 2020</i>
7	Christ-Crain M. , Morgenthaler NG, Müller B. Management of Hyperthyroidism and hyperthyroid goiter. In: Oertli D., Udelsman R (eds) <i>Surgery of the Thyroid and Parathyroid Glands</i> . Springer 2007; 21-28.
6	Christ-Crain M. , Müller B. Diagnostic and Prognostic Value of Hormokines as Biomarkers in Severe Infections: A Progress report. In: Vincent J.-L. (ed) <i>Yearbook of Intensive Care and Emergency Medicine</i> , Springer-Verlag Berlin, Heidelberg 2007; 26: 22-31.
5	Christ-Crain M and Müller B. Procalcitonin on the dusty way to a holy grail: A Progressreport. In: Vincent J.-L. (ed) <i>Yearbook of Intensive Care and Emergency Medicine</i> Springer-Verlag Berlin, Heidelberg 2005; 25:461-76.
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1	Meier C., Müller B., Guglielmetti M., Christ-Crain M. , Huber P., Kraenzlin M., Staub J.J. Reduktion des koronaren Risikos durch Senkung des LDL-Cholesterins: Effekte einer kontrollierten Doppelblindstudie mit L-Thyroxin bei subklinischer Hypothyreose. 15. <i>Henning Symposium Schilddrüse der deutschen Gesellschaft für Endokrinologie</i> , Heidelberg, Germany, Oktober 11.-13th 2001